APPENDIX A - PROPOSAL COVER SHEET COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES RFP 6100032526

the above-referenced RFP: Enclosed in three separately sealed submittals is the proposal of the Offeror identified below for

Offi	Offeror Information:
Offeror Name	Data Recognition Corporation
Offeror Mailing Address	
	13490 Bass Lake Road Maple Grove, MN 55311
Offeror Website	www.datarecognitioncorp.com
Offeror Contact Person	Susan Engeleiter
Contact Person's Phone Number	763-268-2102
Contact Person's Facsimile Number	763-268-3054
Contact Person's E-Mail Address	sengeleiter@datarecognitioncorp.com
Offeror Federal ID Number	41-1810970
Offeror SAP/SRM Vendor Number	164344

		X	
Cost Submittal	Small Diverse Business Participation Submittal	Technical Submittal	Submittals Enclosed and Separately Sealed:

Chief Executive Officer and President	Title
Susan S. Engeleiter	Printed Name
Shown D. Engeleet	Signature of an official authorized to bind the Offeror to the provisions contained in the Offeror's proposal:

FAILURE TO COMPLETE, SIGN AND RETURN THIS FORM WITH THE OFFEROR'S PROPOSAL MAY RESULT IN THE REJECTION OF THE OFFEROR'S PROPOSAL

Appendix B: Test Development Supporting Documentation

Fairness in Testing



Bias, Fairness, and Sensitivity **Guidelines for Training on** Issues

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Introduction

procedures that are designed to ensure that our items and tests meet the Standards for fair for all students. At every stage of the item-and-test development process, we employ scores. Our test developers are committed to the development of items and tests that are of view. Issues of bias, fairness, and sensitivity in testing can have a direct impact on test undesirable not only from a civil rights point of view but also from a measurement point or in the test-related materials (both paper based and computer based). Data Recognition unbiased items; and control of potential bias, stereotyping, and insensitivity in the items Council on Measurement in Education[NCME], 2014): Research Association[AERA], American Psychological Association[APA], & National Educational and Psychological Testing, particularly Standard 3.2 (American Educational Corporation (DRC) understands that the presence of any type of bias in a test is Critical to the development of any new test is ensuring balanced treatment; accessible,

irrelevant characteristics, such as linguistic, communicative, cognitive, cultural, physical, or other characteristics. (AERA, APA, & NCME, 2014, p. 64). construct and for minimizing the potential for tests' being affected by construct-Test developers are responsible for developing tests that measure the intended

developing test questions and related materials. by employing procedures to avoid potentially offensive content or language when process (Joint Committee on Testing Practices, 2004). DRC expands on these practices development and selection of content and strives for fairness in the test development The Code of Fair Testing Practices in Education (the Code) provides guidance on the

disability, gender, race, or English language ability (Thompson, Johnstone, Anderson, & a part of the population to be tested and that testing results should not be affected by of all students who participate. They are based on the premise that each child in school is the widest possible range of students and result in valid inferences about the performance statewide assessments. Moreover, universally designed assessments allow participation of the elements of Universal Design and how those elements relate to developing large-scale on Educational Outcomes (NCEO). Our test development team has been fully trained in using the elements of universally designed assessments developed by the National Center development process, we employ procedures that ensure that items and tests are designed assessments are developed to measure the CCSS. At every stage of the item-and-test Miller, 2002). For state clients who have adopted the Common Core State Standards (CCSS), our

assessments, DRC implements a series of internal quality steps that we believe are among the best in the industry. Accessibility is integrated into items from the beginning, and bias In meeting Standard 3.2 and the Code, as well as in developing universally designed

Introduction (continued)

Anderson, & Miller, 2002). DRC may incorporate guidelines developed by the Smarter review procedures ensure that quality is retained in all items (Thompson, Johnstone, accessibility to assessment. students with disabilities Balanced Assessment Consortium (SBAC) to ensure that items and passages allow and English language learner (ELL) students

design and accessibility principles that align with consideration for test developers. issues of cultural diversity. Additionally, our item writer training includes universal as for technical quality. Our training also includes an awareness of and sensitivity to to write, review, revise, and edit items for issues of bias, fairness, and sensitivity, as well We provide specific training for our test developers, item writers, and reviewers on how

often be perceived only by individuals who possess appropriate expertise and represent of sensitivity to disability, culture, or other subgroups (Thompson, Thurlow, & Malouf, 2004). External panels of professionals review items for subtle forms of bias that can review procedures ensure that items and passages do not create barriers because of a lack wide variety of expertise review items and tests for potential bias. Bias and sensitivity and other stakeholders. DRC understands the importance of having external panels with a and review panels of minority experts, teachers (including special education teachers). specific constituencies. we also provide external training to our clients, including state departments of education In addition to providing internal training in reviewing items to eliminate potential bias.

requirements and/or state-specific guidelines. racial, ethnic, gender, or other groups. Our guidelines may be modified to meet clients symbols, words, phrases, and content that might be considered offensive by members of guidelines for bias, fairness, and sensitivity, including how to eliminate language, This manual is part of the training materials that have been prepared to summarize DRC's

Definition of Bias and Sensitivity

Standards for Educational and Psychological Testing (AERA, APA, & NCME, 2014): While there are many definitions of bias, the following definition is provided in the

different groups of test takers and consequently the reliability/precision and validity of interpretations and uses of their test scores. (AERA, APA, & NCME irrelevant components of test scores that differentially affect the performance of 2014, p. 216) The term bias in test fairness refers to construct underrepresentation or construct-

responding to a test question. Moreover, no members of a group should have an advantage or disadvantage when

In assessment, *sensitivity* refers to the content of an item or passage that evokes an unintentional emotional reaction from a test taker. It would be unfair if a group of test takers were distracted by the content of the item or passage. Additionally, "sensitivity" is used to Assessment Consortium, 2012) refer to an awareness of the need to avoid bias in assessment. (Smarter Balanced

concerns. charts, and test-related ancillaries must be examined for bias, fairness, and sensitivity Items (questions and responses), passages, prompts, stimulus materials, artwork, graphs,

Types of Bias

samples, is provided below. people, including those with disabilities. A definition of each type of bias, along with socioeconomic or class status, religion, or age, as well as bias against other groups of people because of gender, regionalism or geographical differences, ethnicity or culture, There are many types of bias. They include stereotyping and discriminating against

Stereotyping

are examples of stereotyping. should be characterized by any particular attribute or characteristic. The following characteristics, careers, and social roles across all groups of people; no one group stereotyping. As a result, in items or on tests there test items it is very important that all groups are portrayed fairly and without intellectual characteristics, emotions, careers, activities, and domestic or social roles. In "Stereotype is an image formed by ascribing certain characteristics (e.g., physical, cultural, personal, occupational, historical) to all members of a group" (National Evaluation Systems, 1990, p. 2). Stereotyping might include physical characteristics, should be a range of

Stereotyping Examples

Physical characteristics Males are strong and capable leaders.

Females are weak.

The elderly are feeble and sickly.

Children are healthy and full of energy

The elderly are dependent upon others.

People with disabilities are dependent upon others.

Females worry about their hair.

Intellectual characteristics Males do better in mathematics and science

Females do better in reading and language arts.

Asian Americans excel in academics.

Emotions Females are weak, weepy, tender, and fearful. Males are aggressive, courageous, and strong

Careers Females are nurses, teachers, and secretaries.

skilled laborers (e.g., plumbers, construction workers, Males are doctors, principals, superintendents, lawyers, and

painters).

African Americans are athletes. Hispanics operate lawn care businesses.

Asian Americans own dry cleaning businesses.

Stereotyping Examples

Activities Females play with dolls and read books.

Females do domestic chores (e.g., clean house, cook, sew).

Females spend money.

Males play sports and work with tools.

Boys are rowdy.

Girls are quiet.

Domestic/social roles Females are responsible for childcare.

Men work outside of the home and are the breadwinners.

Community Asian Americans live in ethnic neighborhoods.

African Americans live in high-rise apartment buildings

located in urban areas.

American Indians live on reservations.

Leadership Men are leaders and rulers.

Women are followers.

Women are dependent upon men.

Men are elected to political positions.

Females in leadership roles are aggressive and pushy.

respectively would not exhibit fairness and would be considered stereotyping and biased. example, a child can be healthy and a person with a mobility challenge can use a not prohibit contextual presentation when such a depiction is respectful and fair. For careers, and social roles across an entire test. Fairness in presenting these elements does wheelchair, Discretion must be exercised when considering the balance of depicted characteristics, but depicting them exclusively as healthy and as using a wheelchair

Gender Bias

demeaning labels and antiquated terminology. balanced throughout the test. Often, gender bias may be avoided simply by not using not demand exclusion of all possibly stereotypical presentations, but they must be emotions or characteristics. Considerations of fairness in the presentation of gender do stereotypical Gender bias may result when members of either sex are unnecessarily presented in activities, occupations, and/or situations, or as having stereotypical

Examples of gender bias

Use of gender-specific terms to refer to humanity as a whole, such as

- Mankind
- Manhood
- Manpower

- Man of the hour
- Man-hours
- Man-made

Use of gender-specific terms for occupations, such as

- Fireman
- Workman
- Chairman
- Policeman
- Mailman

- Salesman
- Insurance man
- Businessman

Congressman

Use of pronouns that imply a stereotype, such as

- The nurse went to the hospital, and she was able to talk with the patient.
- The factory worker needed to earn more money for his family.
- When the lawyer delivered his closing remarks, the jury listened carefully.
- A politician must give a lot of speeches when he runs for office
- The childcare worker helped *her* children paint pictures.

Use of phrases that identify gender in terms of roles or occupations, such as

- It was hard work for the men to extract the ore from the rock.
- The travelers took their wives and children with them.

Use of phrases or words with an emphasis on marital status, such as

- Abraham Lincoln and Mrs. Lincoln attended the play.
- Dr. and Mrs. Jones attended the opening of the new warehouse

Use of words that identify gender in the salutation of a business letter, such as

- Dear Sir:
- Dear Madam:
- Dear Gentlemen:

Use of words or phrases that are not parallel, such as

- The girls' restroom is down the hall, and the men's restroom is on the second
- door is painted yellow. The boys' locker room door is painted green, and the women's locker room
- The men's department is on the right; the ladies' department is on the left.

Use of figures of speech, such as

- Old wives' tale
- Right-hand man

The better half

The best man for the job

- Man versus nature
- Use of gender-specific terms or diminutive words, such as
- Usherette
- Housewife
- Maid
- Cleaning lady

- Little woman
- Career girl
- Houseboy
- Steward

and/or situations should be respectful and fair. For example, a doctor can be a man, and a through contextual presentation of activities, emotions, occupations, characteristics, across an entire testing document. Fairness and diversity in the presentation of gender Discretion must be exercised when considering the balance of depicted gender roles genders would not exhibit fairness and would be considered gender bias. homemaker can be a woman, but exclusive depictions of such roles filled by these

Regionalism

may be familiar with snow, so questions involving sleds and toboggans, for example, regions and/or parts of the country. It is important to note that some experiences may not involves the use of terms that have different connotations in different geographical nationwide or within a particular region of the state in which the test will be given. It also Regionalism may result from the inclusion of terms that are not commonly used may reflect regionalism. be common to all students. For example, within a given geographic area not all students

Examples of regionalism

- Go get your toboggan (hat or type of sled).
- We are having heroes (sandwiches) for lunch.
- Bake the hot dish (casserole) for one hour.
- Please order a soda (soft drink, pop, Coke) for me.

it is used, a bias may not exist. conditions. For example, if the context clearly communicates what a toboggan is and how geographical bias, and discretion should be employed when using terms under these Context within permissioned passages may mitigate the impact of a potential regional or

context. Some terms may require consideration of a student's grade level. For example, a areas, but all students are expected to understand both terms with little, if any, additional plentiful in some arid regions and shopping malls may not be present in extremely rural modern world or common to the human experience. For example, trees are sometimes not Discretion must also be exercised when considering terms that are common to the student has never seen snow. fourth-grade student should know what snow is through classroom exposure, even if the

Ethnic or Cultural Bias

groups do not eat pork or beef. Therefore, a recipe should explain how to make a are demeaning and/or offensive to a particular ethnic group or culture. For example, some within an assessment, no group should be portrayed as being uneducated or poor. vegetarian dish rather than a pork or beef dish (Downing & Haladyna, 2006). Also, Ethnic or cultural bias may result from the inclusion of terms, concepts, or situations that

Examples of ethnic or cultural bias

- Maria was in the kitchen making tamales.
- Native Americans are very close to nature.
- African Americans live in high-rise apartment buildings in urban areas.

speech is acceptable when measuring a CCSS or content standard, but jargon and slang with the use of idioms or figures of speech, jargon, and slang. Using idioms or figures of presents a barrier to fairness. Culturally specific knowledge should be avoided, along The use of language that is not accessible to English language learners (ELL) students may be challenging to translate into other languages.

Examples of idioms, figures, of speech, jargon, and slang

- "Slow your roll."
- Neal has to hit the rack by 10:00 PM.
- "You have my stamp of approval," said Amy.
- Marisa said, "Hasta luego," as she exited the room.
- We had long faces when we learned that the amusement park had closed

Lerminology

be avoided. The following is a list of acceptable terms: Terms that have a negative connotation or that reinforce negative judgments should also

- African American
- Asian American, Pacific Island American, American Chinese American, Japanese
- Latino or Latina, Mexican American, Hispanic American, Hispanic, Cuban American
- Tribal name (preferred), American Indian, Native American
- European American

another language, the ethnic or cultural bias may not exist. if the context clearly communicates the English equivalent of a phrase provided in cultural bias, and discretion should be used when allowing such depictions. For example, Context within permissioned passages may mitigate the impact of a potential ethnic or

Note: Assessment accommodations and/or alternate assessments may be English ability (e.g., ELL students). state education agencies for students who are non-English speaking or who have limited provided by

Socioeconomic or Class Bias

expensive vacations or attend expensive schools. certain sports, such as golf, snow skiing, or sailing. In addition, not all students take computers or video game consoles, nor do all students in a given area participate in ideas that may not be common to all students. For example, not all students own tablet Socioeconomic or class bias may result from the inclusion of activities, possessions, or

Examples of socioeconomic or class bias

- Van loves to go scuba diving.
- My family is a member of the country club.
- During our vacation, we shopped at the King of Prussia Mall.

- We're hiking along the Shooting Star State Trail
- My great aunt lives in a town house overlooking Lake Paupac

modern world and should not be avoided just because not all students have access to a Discretion must also be exercised when considering topics that are common to the computer outside of an educational setting modern world or to the human experience. For example, technology is a part of the

Religious Bias

demeaning and/or offensive to a particular religious group. Religious bias may result from the inclusion of terms, concepts, or situations that are

Examples of religious bias

- Mom is making hamburgers for dinner.
- The house on Smith Street is decorated for Halloween.
- There were several Christmas trees in the window.
- The students in the class will stand and say the Pledge of Allegiance

Notes:

- information is provided (e.g., New Year's Day). It is acceptable to mention non-religious holidays, but only if contextual
- Traditionally, birthdays have been a religious bias. It is acceptable to mention birthdays, but only if contextual information is provided

inferior or superior to any other. Requiring knowledge of any particular religion is to be avoided. It is also important to note that no religious belief or practice should be portrayed as a universal norm or as

Ageism (Bias against a Particular Age Group)

reference group itself, where the grade (age) of the student is depicted negatively. other age groups, including teenagers and young children—or even with the age of the people older than the reference group).* Ageism can also involve issues of bias with situations that are demeaning and/or offensive to elders or to older persons (defined as youth, and children. Ageism may result from the inclusion of terms, concepts, or There are other subtle forms of bias such as "ageism," which includes bias against elders,

Images of older persons in a nursing home or with a cane, wearing special shoes, or in the content of items has to be revised or rewritten to seem unrealistic. Rather, as a whole, note, however, that representing older persons or any age group fairly does not mean that wheelchairs should be avoided when such depictions are unnecessary. It is important to

and activities whenever such depictions would occur naturally in the test content. the items and the test should show older people, or any age group, in a variety of roles

Examples of ageism (bias against a particular age group)

- My grandfather is taking his afternoon nap.
- They were acting like typical irresponsible teenagers.
- Despite the fact that she was very old, she was able to walk down the stairs.

"people 65 years of age or older" or stating the age of the person is preferred. *Note: When describing an elder, or older person, in assessment materials, referring to

Bias against Persons with Disabilities

and not the person's disability. show people with disabilities in a variety of roles and activities whenever such depictions revised or rewritten to seem unrealistic. Rather, as a whole, the items and the test should representing persons with disabilities does not mean that the content of items has to be and/or offensive to persons with disabilities. It is important to note, however, that of bias may result from the inclusion of terms, concepts, or situations that are demeaning would occur naturally in the test content. Moreover, the items should focus on the person Another form of subtle bias involves issues related to persons with disabilities. This type

Examples of bias against persons with disabilities

- She is a blind person.
- The student is handicapped.
- "In the hallway, use your quiet voice."
- He became a successful writer despite his disability.
- The child made great strides in overcoming her disability.
- After the car accident, the student was confined to a wheelchair.

Terminology

one with a disability should be pictured as helpless or portrayed as pitiful. like crippled, victim, afflicted, confined) should be avoided. It is also important that no Terms that have a negative connotation or that reinforce negative judgments (e.g., words

Do not use Use

Retarded, Mentally retarded

Deaf and dumb, Deaf-mute Learning disabled

Handicap Blind

Developmental disability, person with an intellectual disability or cognitive disability

Deaf, hard of hearing

Person with a learning disability Disability, physical disability

Visually impaired, vision impaired, or blind (used accurately). Use "a person who is blind" rather than "a blind person."

Accommodations

addresses most accommodations that are currently being used in PARCC states to ensure of English language arts/literacy and mathematics (Smarter Balanced Assessment designated supports, and accommodations for the Smarter Balanced content assessments features (e.g., accessible, non-biased items). The Guidelines focus on universal tools, Consortium, 2014). The PARCC Accessibility Features and Accommodations Manual Accommodations Manual. Both documents support the application of Universal Design Accessibility, and Accommodations Guidelines (the Guidelines) and the Partnership for DRC is keenly aware of the Smarter Balanced Assessment Consortium: Usability, As was mentioned earlier, DRC takes several steps to ensure fairness for all test takers Assessment of Readiness for College and Careers (PARCC) Accessibility Features and

- participation in the assessments is consistent across PARCC states for students with disabilities and English learners;
- with disabilities, English learners, and English learners with disabilities); and needs, and accommodations are provided to eligible students (including students appropriate tools are used by all students to address their individual learning
- accommodations used on PARCC assessments are generally Readiness for College and Careers, 2013). accommodations used in daily instruction (Partnership for consistent with Assessment of

Accommodations may be necessary for students in special populations (i.e., students with disabilities, English language learners, English language learners with disabilities) to

participate fully in assessments. Some accommodations (e.g., large-print test books, Braille, audio tapes, videos) may be developed by DRC as requested by the state client.

in the development of tests for persons with disabilities in order to match disabilitydisabilities. DRC implements state-specific item and test specifications for artwork, State education agencies may also provide assessment accommodations for specific related characteristics. graphs, charts, and test-related ancillaries, along with the principles of Universal Design,

guide) are available for students who require it. accommodations and specialized tools (e.g., color chooser, contrast color, magnifier, line ensures that online testing is accessible to the widest possible range of students. Online We have incorporated Universal Design principles into computer-based testing, which

Braille, Large Print

clearly labeled and the text should describe the content of the graphic. (See Graphics) Graphics should be used only when necessary. If graphics are used, they should be be avoided unless such a stimulus helps measure a specific skill for a content area. font size or Braille version. Also, unnecessary maps, charts, or graphs in an item should reading the items on the pages will negatively impact their scores (U.S. Department of test that has not been administered for them in Braille or large print. Their difficulties in Students who are visually impaired will consistently score lower than they should on a Education Office for Civil Rights, 2000). Therefore, items should be presented in a larger

Videos, Audiotapes

content-specific audio guidelines are used in the development of audio test materials. avoided due to the difficulty of translating them into ASL. If audiotapes are required, Language translations. The use of jargon, slang and other problematic phrases are to be videos that are prerecorded with American Sign Language (ASL) or Signed Exact For students who are deaf or hard of hearing, state clients may require the development of

Graphics

principles of Universal Design were applied. some science, social studies, and mathematics items and the same graphics after the items accessible, non-biased). The examples provided show the original graphics for graphics are developed by DRC using the principles of Universal Design (i.e., making In addition to written text materials, some items or passages may require graphics. All

Examples

READING

Original Graphic

The Pony Express

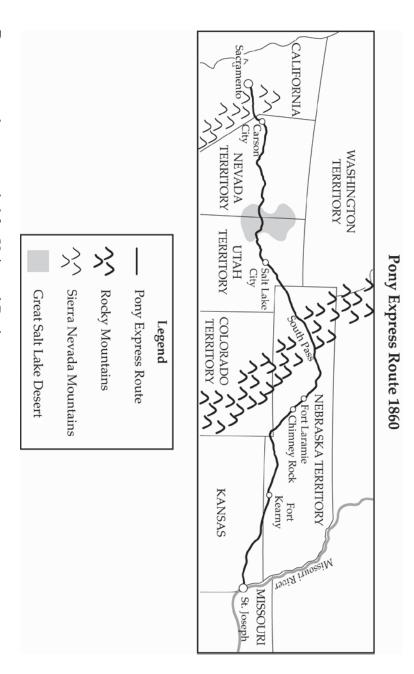
the route headed south toward Salt Lake City. Then it crossed the deserts of Utah and the Pony Express riders. After going over the formidable Rocky Mountains at South Pass. the state of Missouri and followed part of the Oregon Trail through Kansas and Nebraska Sacramento, California. Nevada Territories and the rugged Sierra Nevada Mountains, finally arriving at Territories. Fort Kearny, Chimney Rock, and Fort Laramie were important markers for The Pony Express route was a distance of almost 2,000 miles. On the east end, it left

stations were built along the route where horses and riders ate and rested. while riding across the frontier. Above all, they needed to be expert horse riders. Way of the Pony Express bought hundreds of mustangs, quarter horses, and thoroughbreds. The riders needed to be lightweight and courageous. They had to endure great hardships The Pony Express needed horses that were strong, tough, and fast runners. The owners

Pony Express Route 1860

CALIFORNIA Placervill Fort Churchill TERRITORY WASHINGTON NEVADA TERRITORY TERRITORY UTAH City Salt Lake COLORADO TERRITORY DAKOTA TERRITORY Rock Chimner NEBRASKA TERRITORY Fort Laramie Julesburg Kansas River Kearny KANSAS Platte River Kansas City MISSOURI St. Joseph

Principles of Universal Design Applied



Passage: no changes needed for Universal Design

Graphic: changes applied to graphic to meet Universal Design

- mentioned in the passage. Removed nonessential or secondary information such as river names not
- Applied a legend to help identify features and understand the map
- Used consistent and easily distinguishable symbols to indicate features.
- reduced the business in the graphic. Used larger icons for the different features for clarity and visual appeal, which
- Changed dashed lines to solid lines, which are easier to distinguish.
- Cleaned up text that crossed over lines within the graphic for ease of reading the

Original Graphic

Use the chart below to answer the following question.

Mileage Between Cities

Copyright @1992 by Rand McNally & Company.	Youngstown	Toledo	Columbus	Cleveland	Akron	***/	/,
992 by	50	124	126	37		EGGT SE	ROO
Rand	58	168	194 114 122 111 144	58 115 60 249	82		
McN	170	22	114	115	124		
ally 8	50	4	122	8	20	181	7/
Com	278	210	111	249	235	Second Second	
pany	77	1116	144		37	Sec. 1	"/
•	170	168 22 144 210 116 144 56 190 211		144	126	Sec. Sec.	
	212	56	132	154	167	180 / S.	7/
	35	190	171	89	දු		//
	93	211	238	99	125	-20/	//
	202	83	89	151	155		//
	93	83	127	29	55	Ser Ser	7/
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	57	133	113	54	21		
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	62	22	143	109	82		//
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		156 170	170	77	82 124 20 235 37 126 167 63 125 155 55 64 21 104 81 81 124 41 50	JI.	

How many miles is it from Toledo to Columbus?

124 126 144 154

D. B. A.

Principles of Universal Design Applied

Use the chart below to answer the following question.

MILEAGE BETWEEN CITIES

Youngstown	Toledo	Columbus	Cleveland	Akron	SON SOUN
50	124	126	37		OTTO O
50 278	124 210 116 144 190	111	37 249	235	
77	116	144		37	Stand Stands
77 170	144		144	37 126	/201/25/
35	190	171	89	63	
121	53	106	60	81	
62	3 204	143	109	81	
62 170		144	116	81 124	Solicit
15	156 170	165 170	52	41	The Strate of th
	170	170	77	50	3

How many miles is it from Toledo to Columbus?

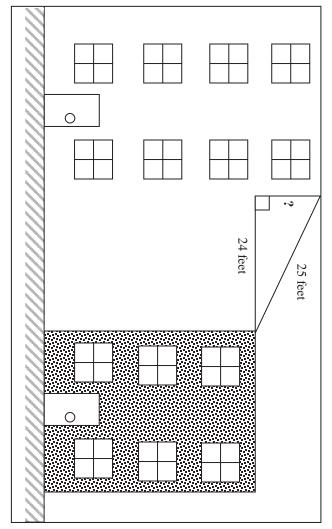
- 124 126
- 144 154

Changes applied to graphic to meet Universal Design:

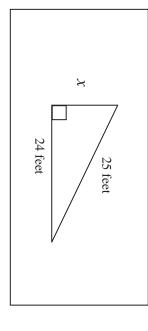
- Clearer format
- Fewer labels are included in the chart
- Larger fonts
- Enlarged chart for easier viewing

Mathematics

Original Graphic



Principles of Universal Design Applied

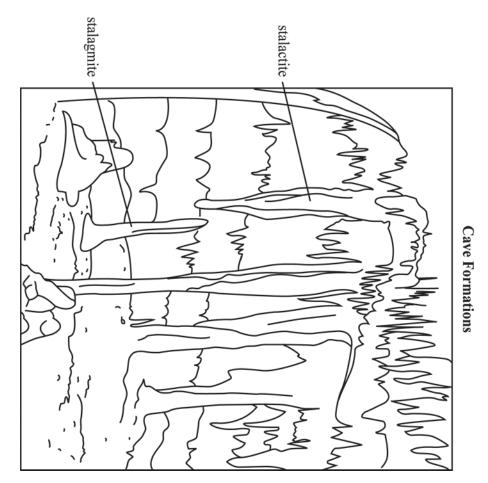


Changes applied to graphic to meet Universal Design:

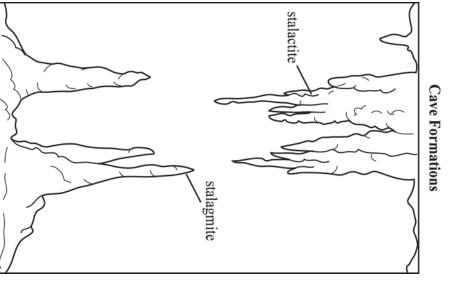
- Irrelevant material removed
- Simplified structure

Science

Original Graphic



Principles of Universal Design Applied



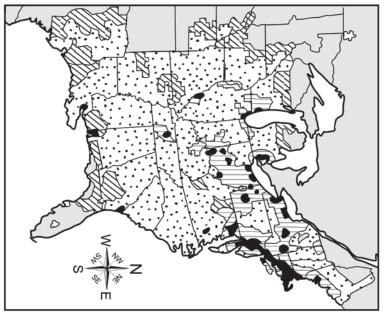
Changes applied to graphic to meet Universal Design:

- Extraneous details eliminated
- Edits that highlight the cave formations while reducing the unnecessary background detail of the cave environment

Social Studies or History

Original Graphic

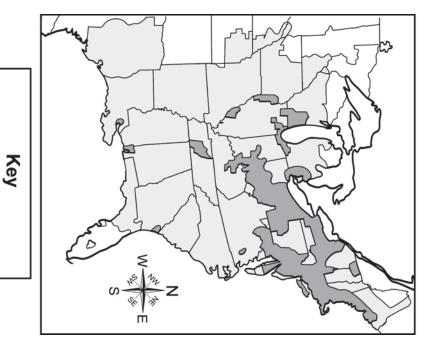
U.S. Population Density, 1860





Principles of Universal Design Applied

U.S. Population Density, 1860



fewer than 45 persons per square mile 45 or more persons

Changes applied to graphic to meet Universal Design:

per square mile

- Patterns in the map have been removed to make the map easier to read.
- information. Categories in the key have been reduced from five to two, to remove extraneous
- The words "persons per square mile" were added to each symbol in the key—instead of having the information in parentheses below.
- The white background for all areas is not referenced in the key.
- The graphic in the Universal Design version is slightly larger.

Maintaining Balance

whether there is an adequate representation of the test developers at DRC review the pool of items and the test as a whole to determine and each test as a whole should also reflect cultural diversity. In order to achieve balance, content that is balanced across ethnic groups and gender. The content of the pool of items Bias may also occur as a result of underrepresentation of a particular ethnic group and/or Therefore, whenever possible, tests and test-related materials should contain

- females and males in both traditional and nontraditional roles
- female and male names.
- minority groups in various environments and occupations.
- names from various minority groups.
- multigenerational families) various family structures (e.g., oneand two-parent households,

and related topics to represent the populations that are being assessed. Although stimuli this pool, there should be varied stimuli that adequately balance gender, race, ethnicity, assess domain-specific standards. These stimulus prompts become part of an assessment the entire pool be reviewed also to ensure balance of representation. are usually evaluated independently or in a small set, it is of paramount importance that pool from which stimuli are selected for placement on a large-scale assessment. Within In most large-scale assessment programs, stimulus prompts are needed to adequately

assessment pool, the potential for bias is reduced. DRC test developers evaluate stimuli who work outside the home. As long as there is a balance of stimuli within the Additionally, not all stimuli in a pool will show the genders in non-stereotypical roles. representation across the test form of the diverse population that will be tested for inclusion on a test form. Various stimuli are selected to provide an adequate For example, some mothers work at home, but there should also be depictions of mothers

composition should be depicted as fully integrated in society, reflecting the diverse multicultural can result from omitting certain areas of information and/or from omitting certain topics. Wherever possible, the content should show people in everyday situations, and groups The issue of bias and fairness also involves content inclusiveness. Subtle forms of bias ofsociety as а whole (National Evaluation Systems,

Topics

difficulty steps "to avoid bias toward or against any group of students that may cause them to have considerations should be made when discussing specific topics. DRC employs a series of Issues of bias, fairness, and sensitivity in testing can have a direct impact on test scores; Anderson, & Miller, 2005). responding to items or create emotional stress" it is important that sensitive and offensive topics be (Thompson, Johnstone avoided and that

Topics to Avoid

to remember that the ability of the student to take the test should never be undermined appear to promote or defend a particular set of values should be avoided. It is important controversial topics, such as abortion and the death penalty. In addition, topics that parents, or the community at large. This guideline includes highly charged and for a particular program. The following are examples of topics that should be avoided. Guidance from the state is also critical in defining specific topics that need to be avoided A topic might be considered offensive or controversial if it offends teachers, students,

Examples of topics generally to be avoided

- Abortion
- Animals dying or being mistreated, killing of animals for sport
- Contraception
- Controversial authors
- Criticism of democracy or capitalism
- Dangerous behavior
- Death, murder, and suicide (e.g., of parents, siblings, family pets)
- Disrespect toward any racial or religious group
- Double meanings of words that include sexually suggestive meanings
- being homeless, caring for siblings) Family experiences that may be upsetting (e.g., divorce, loss of a job or home,
- Feminist or chauvinistic topics
- Guns and gun control
- Immigration (i.e., deportation)
- or do homework, and other criminal and/or antisocial behaviors and activities) Inappropriate behaviors (e.g., stealing, cheating, lying, failing to attend school
- Junk food (e.g., candy, gum, chips)
- Left- or right-wing politics

- of expensive equipment) vacations, and sports, such as snow skiing, that typically require the purchase Luxuries (e.g., homes with swimming pools, expensive clothes, expensive
- Iviui dei
- Parapsychology, Scientology
- abuse; family issues; bullying; or teasing) Physical, emotional, and/or mental abuse (e.g., animal, child, and/or spousal
- Prayer in school
- Pregnancy
- Sex (e.g., kissing, dating)
- Specific music (e.g., rock, rap, heavy metal)
- Lobacco
- Violence against people and animals
- Witchcraft, sorcery, or magic
- Words that might be problematic for a specific ethnic group

Topics of Concern

State Standard or content standard and are acceptable if presented appropriately. The topics below are acceptable in assessments when used to measure a Common Core

Examples of topics acceptable if presented appropriately

- Alcohol, illegal drugs, tobacco products
- avoid the concept of animals attacking other animals) spiders (avoid the concept of dangerous animals around younger children; Animals that are frightening to children, including poisonous snakes and
- contextual information) Birthdays (traditionally not permitted; mention of birthdays must include
- (acceptable if used in a literary or historical context) Biographies of controversial figures whether or not they are still alive
- HIV, AIDS); avoid details that may be upsetting to students Cancer and other diseases and illnesses that might be considered fatal (e.g.,
- Dancing of all types except couples dancing socially
- Gambling (cards and number cubes may be used for mathematics problems)
- Global warming (acceptable if items focus on "climate change" in a curricular
- Fossils, owls, dinosaurs (acceptable if presented in a curricular context)
- holidays, but only if contextual information is provided.) Holidays (traditionally not permitted; acceptable to mention non-religious
- Homelessness (should not focus on emotional distress)
- Immigration

Topics of Concern

- content standard. However, pizza and pie are permitted when used as a graphic to assess a Junk food-typically, junk foods (e.g., candy, gum, chips) are to be avoided.
- "parents," "caregiver," or "guardian") Mom and Dad (use "Mom" or "Mother" and "Dad" or "Father"; "parent,"
- Obesity and body image
- camping, hiking) (acceptable if contextual information is provided) Sports, activities that may be unfamiliar to students (i.e., golf, hockey, soccer,
- Technology provided) (e.g., modem, bits) (acceptable if contextual information is
- Wars (acceptable if presented in a historical context)

Special Circumstances

Curricular Contexts

special circumstances that are relevant for a particular program. The following content-State Standard or content standard. Guidance from the state is also critical when defining the course of study or may be required in order to measure the specific Common Core In certain subject areas, a sensitive topic may be acceptable because the topic is a part of specific special circumstances must be considered.

Science

the fairness and validity of a large-scale assessment: techniques can be used to prevent sensitive topics from becoming bias issues that impact At times, an inherently sensitive topic may be part of a science content standard. Various

- evolution. Items can focus on nonhuman examples that support the biological theory of
- specific time-period estimates. Items can focus on the origin or analysis of fossil evidence without including
- warming." Items can use the terminology "climate change" as opposed to "global

- opposed to their impacts on people and society. Items related to natural disasters can focus on the scientific phenomena as
- Items can supply information related to specific environments involving prior particular region. knowledge that could be perceived as advantageous to students living in a

information may prevent giving an unfair advantage to students living near a of tide pools would require some prior knowledge. Providing supplemental coastal region over students living in a noncoastal region. Example: An item assessing Nature of Science skills that includes the context

when presented by a teacher and followed up with a discussion facilitated by the teacher. standards assessed on criterion-referenced tests. Some science topics are best addressed It is important to note that instruction is assumed to have occurred for science content

Historical Contexts

Social Studies

objectives and, therefore, that the topic does not reflect the views of the test developer. used to assess knowledge of a particular curriculum content standard and/or set of topic of slavery might occur. The student would know that such a controversial topic is topics that might otherwise be deemed controversial. For example, in a history test, the In order to measure the curriculum content standards, social studies tests often include

Other topics that may appear in social studies tests include

- human-environment interaction. geography questions relating to the causes and effects of natural disasters or
- systems, or specific legislation. civics questions about controversial court cases, political viewpoints and
- exploration and conquest, world religions, dictators). history questions about controversial events or figures (e.g., wars, genocide,
- economics questions relating to issues of unemployment, standard or cost of living, or social programs.

put events and beliefs in their historical and social contexts. different ideologies, to demonstrate change over time, or to assess the student's ability to particular content standards related to historical thinking skills, to compare and contrast society in which the documents were produced. Such sources would be used to address that are not accepted today but that do reflect the perspectives of the person quoted or the In some cases, quotations or documents used in items may include knowledge or beliefs

developer will use the terminology preferred by the client. research in the field and that appropriate and inclusive terminology is used. It is possible that preferred terminology for some groups (e.g., "Native American" versus "American In all cases, it is important to ensure that content is presented in accordance with current Indian" versus specific tribal names) may vary by state or region. In these cases, the test

Literary Contexts

English Language Arts

speech. These types of items are acceptable when used to address a content standard. only if permission is granted. Some language arts items may contain idioms or figures of developers request permission from the publisher to make these edits, which are applied words, and/or references in order to eliminate the potential bias. In such cases, DRC test acceptable, it may be possible to edit and/or delete the objectionable sentences, phrases, contain religious elements as part of literary excerpts. If the overall passage or prompt is including sentences, phrases, and/or words. Some mythology, folktales, and fables may result, sometimes a given passage or prompt might contain controversial material, Today's tests often require the use of authentic or previously published passages. As a

Reading Passages

solution to eliminate this type of subtle bias. not be able to relate to the phrase. Replacing "your yard" with "outside" is a feasible that students have a yard. Also, using "your" is more personal, and some students may you may notice honeybees buzzing around your yard." The use of "your yard" implies to the more obvious ones stated earlier. Consider, for example, "Summer is a time when there are some subtle biases that can be found in passages, stimuli, or prompts in addition instead, they write items that can be supported by information in the text. However, construct items that focus on information that may require prior knowledge; about the sport and understand it based on the text. DRC test developers do not usually unbiased. Although some students may not have played basketball, they may read information about the sport that requires prior knowledge. Informational passages are acceptable, as long as the items do not ask for the definition of a "hook shot" or other text that could be unfamiliar to students. For example, a passage about basketball is DRC utilizes reading passages from a variety of genres. Some may contain informational

Points to Remember

materials, artwork, graphs, charts, and test-related ancillaries for issues of bias, fairness, and sensitivity, the following questions should be asked. When reviewing items (questions and answer options), passages, prompts, stimulus

- Do the items (questions and answer options), passages, prompts, stimulus materials, artwork, graphs, charts, and test-related ancillaries
- demean any religious, ethnic, cultural, or social group?
- unnecessarily portray any person or group in a stereotypical manner?
- contain any other forms of biassocioeconomic or class, religious, age-related or bias against persons with disabilities? -gender, regionalism, ethnic or cultural,
- 12 might disadvantage a student for any reason? Are there any topics that are not described clearly enough with the result that they
- ω speech, jargon, or slang that might disadvantage a group of students? Are there any terms, difficult words, culturally specific concepts or ideas, figures of
- 4. life experiences of the students responding to the items? Are the questions and activities in the items or on the test as a whole relevant to the
- S including an adequate representation of Is the test or pool of items and graphics balanced across ethnic groups and genders,
- females and males in both traditional and nontraditional roles?
- female and male names?
- minority groups in various environments and occupations?
- names from various minority groups?
- 9 of society as a whole? as being fully integrated in society, reflecting the diverse, multicultural composition Wherever possible, does the content show minority groups in everyday situations and

Sample Review Form

	Signature:
3.	
α.	General Comments:
Bias-Sensitivity Description	Item ID #
Type of Bias: stereotyping, gender, regionalism, ethnic or cultural, socioeconomic, religious, ageism, disability	Type of Bias: ster disability
Grade:	Subject Area:
Date:	Name:

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Sample Items with Bias, Fairness, and/or Sensitivity Concerns

tha was	reache	into th	1. Fr:
ter temi	reached 212°F. What information is not needed to find the mean (average) rate at which	into the water, the water temperature was 160°F. After 3 minutes, the water temperature	1. Franco Piccione cooked spagnetti for his family. When he placed 6 ounces of noodles
the water temperature changed?	. What	, the wa	cione c
chang	inforn	ater ten	cooked
ed?	nation i	nperatu	spaghe
	s not n	re was	tti for l
	needed	160°F	nis fam
	to find	. After	ily. Wi
	the m	3 min	nen he
	ean (av	utes, th	placed
	erage)	ie wate	6 ounc
	rate at	r temp	es of n
	which	erature	noodles

1. Franco Piccione cooked spaghetti for his family. When he placed 6 ounces of noodles into the water, the water temperature was 160°F. After 3 minutes, the water temperature reached 212°F. What information is not needed to find the mean (average) rate at which the water temperature changed?
A. 6 ounces of noodles
B. 160°F water temperature
C. 3 minutes
D. 212°F water temperature
Type of bias:
2. For a community service project, Amanda's class spent 2 hours at an old folks' home They spent $\frac{1}{2}$ of the time doing jigsaw puzzles, $\frac{1}{4}$ of the time reading, and the rest of the time watching television. How much time did they spend watching television?
A. 30 minutes
B. 45 minutes
C. 60 minutes
D. 90 minutes
Type of bias:
3. Which of the following items did Kathleen buy at the fair?
A. a snowball
B. a funnel cake
C. a slice of pizza
D. a piece of pie
Type of bias:

4. On January 1, Parker's father purchased a share of Jolter Corporation stock was \$123.38. On July 1, the price of a share was \$97.41. What is the percent of decrease in to

the price of a share of Jolter Corporation stock between January 1 and July 1? (Round he nearest hundredth.)
A. 1.27%
3. 21.05%
C. 25.97%
D. 26.67%
Type of bias:
5. What is the main idea of the article?
4. Doctors work long hours and neglect their wives and children.
3. Doctors deal with many pressures in modern American society.
C. Doctors pay a large amount of money to attend medical school.
). Doctors leave the profession more now than they did ten years ago.
Type of bias:
6. What is the main conflict in the story?
4. man versus man
3. man versus nature
C. man versus society
O. man versus self
Type of bias:

Sample Items with Bias, Fairness, and/or Sensitivity Concerns (continued)
7. What did Eduardo learn from the visit with his grandfather?
A. Age does not affect one's personality.
B. Older people need help with everyday tasks.
C. Age lessens one's appreciation for life.
D. Older people often have special medical needs.
Type of bias:
8. You will have up to 60 minutes to plan, write, and proofread your response to this writing prompt:
Write an essay that describes your experience with playing golf.
Write your response on the next two pages.
Type of bias:
9. What does Mya enjoy most about summer?
A. going to the festival
B. swimming at the lake
C. playing softball at the park
D. reading her favorite books

Type of bias:

Sample Items with Bias. Fairness

	and/c	
	r Sensi	-
:	itivity	
	Concer	
	su.	,
	and/or Sensitivity Concerns (contin	

10 What amild company loans from monding the articles	and/or Sensitivity Concerns (contin	•
ticle?	erns (conti	`

	and/or Sensitivity Concerns (continued)
10.	10. What could someone learn from reading the article?
\geq	A. Mexicans often wear sombreros and eat tacos.
В.	B. Mexico has become a popular tourist destination.
Ω	C. Mexicans are very friendly and helpful.
D.	D. Mexico produces many different kinds of fruit.

Type of bias:

11. The Wampanoag people and the Pilgrims both lived in the same environment at the same time. Which is one way the Indians used their environment before the Pilgrims

 Ω В. arrived? A. to dig wells to grow corn, squash, and beans to raise sheep for wool

D. to saw trees into boards to build houses

Type of bias:

12. According to the article, how is Marie different from the other children in her class?

Ņ. She likes to play the piano.

В. She is blind.

 $\dot{\Omega}$ She is tall.

D. She likes to work alone.

Type of bias:

circ	13.
umference	Samantha
of the ho	entered
le :	an
circumference of the hole Samantha drilled?	13. Samantha entered an ice-fishing contest. She drilled an 8-inch hole. What is the
illed?	contest.
	She
	drilled
	an
	8-inch
	hole.
	What
	is
	the

Use $\pi = 3.14$.

- A. 12.56 inches
- B. 25.12 inches
- C. 32 inches
- D. 50.24 inches

Type of bias:

Use the table to answer question 14.

21	Sailing
5	Rugby
9	Polo
13	Golf
Number of Members	Sport
Favorite Sports	1

- name their two favorite sports. The table above shows the results. How many members are included in Melissa's survey? 14. Melissa conducted a survey at the Morningside Country Club. She asked members to
- A. 12
- B. 21
- C. 24
- D. 48

Type of bias:

this phrase mean? Use details from the story to support your answer. 15. In the story, Charlie says to Mia, "You can kill two birds with one stone." What does

Type of bias:

.0	;)	.Θ		vino
D. w•4	\mathbb{C} . $\psi \div 4$	B. $w-4$	A. $w+4$	16. Mrs. Sanders ordered new windows for her house. The salesman told her that each window would be made from 4 sections of glass. Which expression represents the number of sections of glass necessary to make w windows for Mrs. Sanders's house?
				()

Use the table to answer question 17.

Type of bias:

Science	Science Test Scores
Student	Test Score
John	93
Susan	61
Juan	96
Tao	93
Jessica	55
Keisha	70

17. The science test scores of six students in a lab group in Mr. Gomez's class are shown in the table above. What is the mean (average) score of the test scores in the lab group?

()	ω	حلب	
C. 80.5	3. 77.5	A. 41	n the table above. what is the mean (average) score of the test
			€.
			nat is
			ше ш
			ट्या (व
			verage
) score
			e or m
			e test

D. 93

Type of bias:

Plains?	lives	18.
ns?	stock	Anin
	wou	nals
	ld b	are
	e bes	adap
	t su	ted
	ited	to
	for	surv
	mea	ive
	t p	in
	livestock would be best suited for meat production in the grassland prairies of the Great	18. Animals are adapted to survive in their specific environments. Which breed of
	tion	spe
	in t	cific
	he	en
	gras	lvirc
	sland	nme
	d pra	ents.
	airie	¥.
	s of	hich
	the	bre
	Gre	ed
	at	of

D. hallucinations of an occupant of the HMS <i>Beagle</i> . Type of bias:
C. God's little mistakes leading to his creation of mankind.
B. adaptive responses to environmental change.
A. accidents from cloning experiments.
19. Scientists studying the fossil record have observed gradual changes in the structural morphology of numerous organisms that occurred over millions of years. These changes are most likely the result of—
Type of bias:
D. Suffolk sheep
C. Hereford cattle
B. buffalo
A. Angora goat
18. Animals are adapted to survive in their specific environments. Which breed of livestock would be best suited for meat production in the grassland prairies of the Great Plains?

20. This question has two parts. Answer Part One and then answer Part Two.

Part One

What best describes Jason's attitude about Parker's soccer skills?

- A. He thinks Parker should practice his kick aim.
- B. He wishes Parker could pass the ball better.
- C. He hopes Parker will improve on kicking the ball.
- D. He thinks Parker is a better dribbler than himself.

Part Two

Which sentence from the passage supports the answer in Part One? Choose one answer.

- A. "Parker and Jason walked home to eat a ham sandwich and talk about what to expect the next day."
- В. "After it was over, they received a phone call about making the team."
- "He thought to himself, he'll make the team, and I'll watch from the bleachers."
- D. "Tryouts,' Jason said, barely looking at him as he kept the pace with Parker."

•	Type of bias:	

ELA Bias & Sensitivity Review Form

Name:	Date:
Subject Area: ELA	4 Grade
Type of Bias: ste ageism, disability	Type of Bias: stereotyping, gender, ethnic/cultural, regionalism, religious, socioeconomic, ageism, disability
Passage ID#	Bias-Sensitivity Description
or Item#	
GENERAL COMMENTS:	MENTS:
Signature:	

Mathematics Bias & Sensitivity Review Form

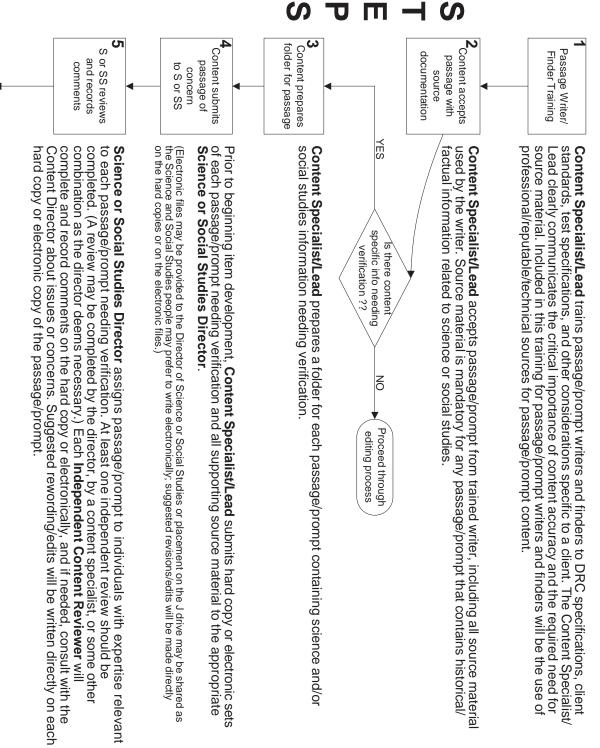
Name: Subject Area: Mathematics Type of Bias: stereotyping ageism, disability Item # Bias-Ser	Name: Date: Subject Area: Mathematics Grade Type of Bias: stereotyping, gender, ethnic/cultural, regionalism, religious, socioeconomic, ageism, disability Item# Bias-Sensitivity Description
GENERAL COMMENTS:	MENTS:
Signature:	

Science Bias & Sensitivity Review Form

Name:	ence Grade Date:
Type of Bias: ste ageism, disability	Type of Bias: stereotyping, gender, ethnic/cultural, regionalism, religious, socioeconomic, ageism, disability
Item#	Bias-Sensitivity Description
GENERAL COMMENTS:	MENTS:
2	
Signature:	

Internally-Created Passage/Prompt Subject Expertise Review Process

should go through a subject-expertise review. The following are subject-expertise review process steps When a passage/prompt contains science and/or social studies information needing verification, the passage/prompt



recommendation, makes the final determination if the passage/prompt is used or rejected, and what edits, if any, need to be made. Final decisions will be added to the hard copy or electronic passage/prompt file. Any edits made to a permissioned passage will be submitted as part of the regular permissions process to the Permissions Editor. **ELA Director and/or ELA Content Lead** reviews the recommendations provided by the Science or Social Studies Reviewer and seeks clarification from the appropriate person concerning any

Content makes final resolution on

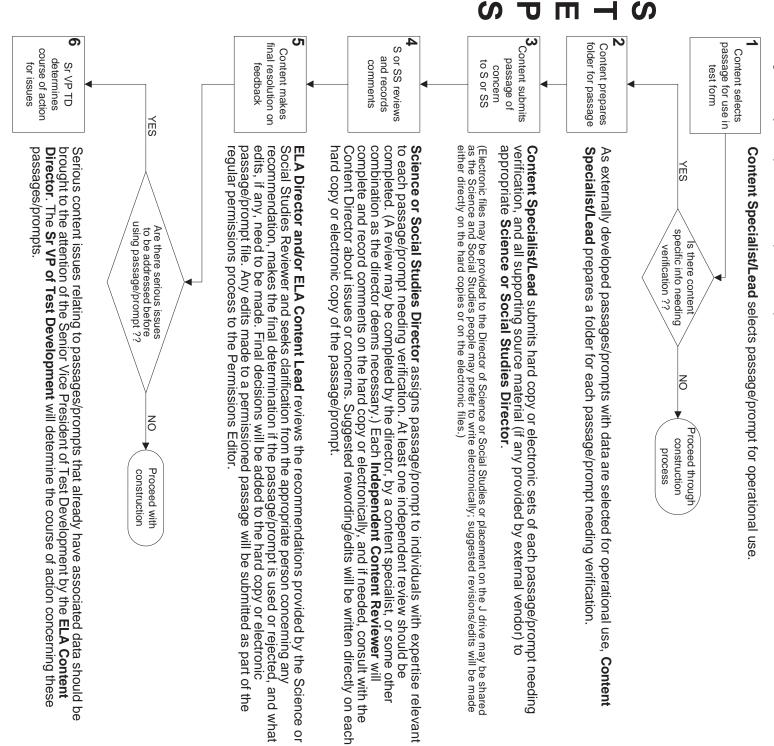
feedback

Note: If a client has a Passage/Prompt Review meeting, steps one through six must be completed prior to the Passage/Prompt Review meeting. For any client that does <u>not</u> have a separate Passage/Prompt Review meeting steps one through six must be completed <u>prior</u> to the Item Review Meeting.

The documentation of the content-area sign-off may be provided to review committees and/or the client as deemed necessary

Externally-Created Passage/Prompt Subject Expertise Review Process

following are subject-expertise review process steps. accompanying data and contains science and/or social studies information needing verification, the passage/prompt should go through a subject-expertise review at the time the passage/prompt is selected for operational use. The When a passage/prompt is created externally by another vendor and/or received as part of an Item Bank with





Universal Design Samples

READING

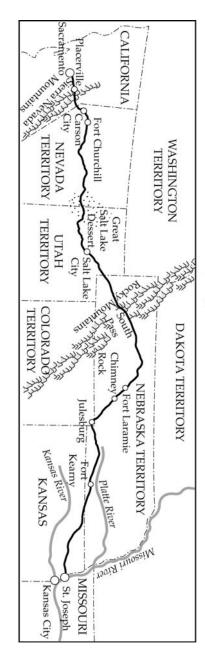
Original Passage and Graphic

The Pony Express

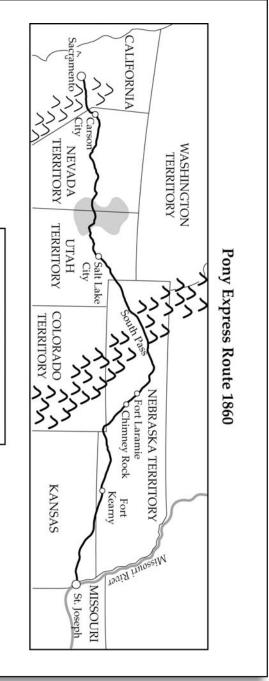
After going over the formidable Rocky Mountains at South Pass, the route headed south toward of Missouri and followed part of the Oregon Trail through Kansas and Nebraska Territories. Fort Nevada Mountains, finally arriving at Sacramento, California. Salt Lake City. Then it crossed the deserts of Utah and Nevada Territories and the rugged Sierra Kearny, Chimney Rock, and Fort Laramie were important markers for the Pony Express riders. The Pony Express Route was a distance of almost 2000 miles. On the east end, it left the state

along the route where horses and riders are and rested. across the frontier. Above all, they needed to be expert horse riders. Way stations were built needed to be light-weight and courageous. They had to endure great hardships while riding Pony Express bought hundreds of mustangs, quarter horses, and thoroughbreds. The riders The Pony Express needed horses that were strong, tough, and fast runners. The owners of the

Pony Express Route 1860



Principles of Universal Design Applied



Legend

Pony Express Route

Rocky Mountains

Sierra Nevada Mountains

Great Salt Lake Dessert

Passage -no changes needed for universal design.

Graphic: Changes applied to graphic to meet universal design

- Removed nonessential or secondary information such as river names not mentioned in the
- Applied a legend to help identify features and ease of understanding the map
- Used consistent and easily distinguishable symbols to indicate features
- the busyness in the graphic. Used larger icons for the different features for clarity and visual appeal, which reduced
- Changed dashed lines to solid lines, which are easier to distinguish
- Cleaned up text that crossed over lines within the graphic for ease of reading the words

Original Item

day, how much money did they save by doing the painting themselves? minutes the third day, 1 hour and 5 minutes the next day, and 2 hours and 40 minutes the last company's charges would be \$45 an hour. The family kept a record of the time they painted. If they spent 1 hour and 30 minutes one day, 1 hour and 20 minutes the next day, 2 hours and 10 local painting company to find out the price the company would charge to do the same job. The The Casteluccio family decided to repaint the outside of their house themselves. They called a

- A. \$315.00
- B. \$382.50
- C. \$393.75*
- D. \$405.00

Principles of Universal Design Applied Item

house. The table below shows the amount of time each day it took Ben to repaint the outside of his

Painting Time

Day	Timo
E a y	
Monday 1	hour 30 minutes
Tuesday	1 hour 20 minutes
Wednesday	2 hours 10 minutes
Thursday 1	hour 5 minutes
Friday 2	hours 40 minutes

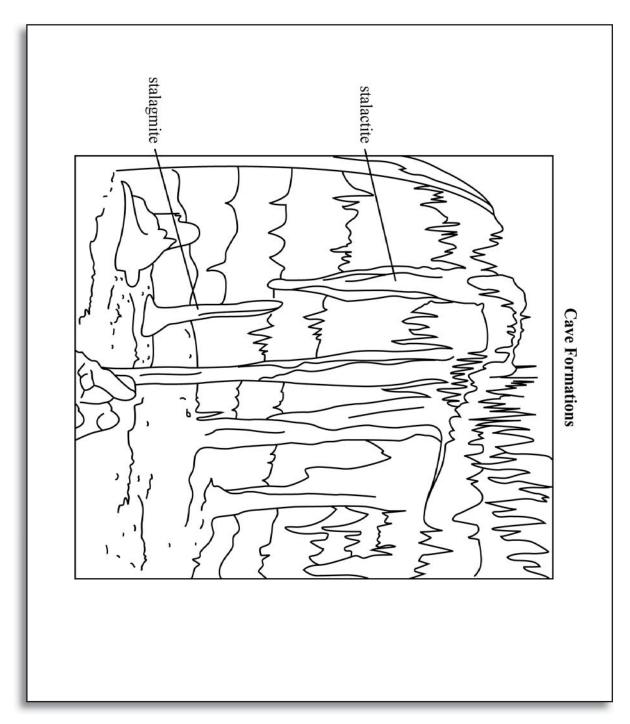
did Ben save by painting the house himself? The local house-painting company charges \$45 per hour for the same job. How much money

- A. \$315.00
- B. \$382.50
- C. \$393.75*
- D. \$405.00

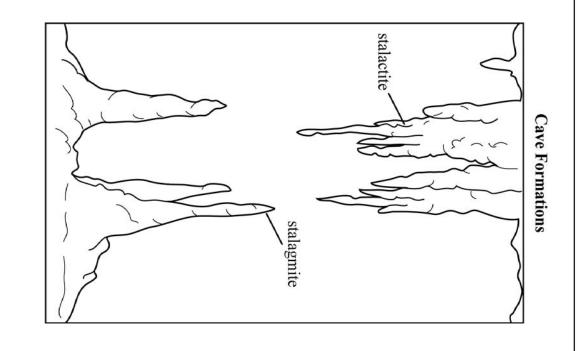
The item has been revised to reflect the Principles of Universal Design by

- removing irrelevant material
- reducing wordiness
- simplifying structure
- changing format to increase spacing
- replacing proper name with a simple, common name
- creating a table with clear title and headings to convey information
- using plain language in a straightforward and concise manner.

Original Graphic



Principles of Universal Design Applied Graphic



Universal Design Principles applied:

- 1. Extraneous details in the graphic have been eliminated.
- 2 unnecessary background detail of the cave environment. Edits to this graphic highlight the cave formations while reducing the

Accessible Assessments



Making Assessments Accessible and Inclusive:

A Handbook for DRC Employees

Introduction

legislation impacting accessibility and in an effort to make assessments that we develop all-inclusive, we thoroughly train our staff to understand the underlying pedagogy that is the very Accessible Assessments was designed to educate and train DRC internal and external reviewers, test developers, item writers, and editors. DRC supports and encourages the intent of current foundation of accessibility.

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Universal Design: Guidelines and Features

all students including students with disabilities and students with limited English proficiency. The and IDEA regulations demand universally designed assessments that are accessible and valid for students" [Section 1111 (b)(3)(C)(ix)(1)]. Act) requires that each state must "provide for the participation in [statewide] assessments of all No Child Left Behind Act (NCLB; reauthorization of the Elementary and Secondary Education The issue of universally designed assessments has been addressed by federal legislation. Title I

listing of all GLEs that might not fit this criteria. content. To ensure that development of items are valid and fair for all students, DRC provides a expectations (GLEs) be analyzed and that items should be developed without removing core Best practice in universal design (UD) demands that content curriculum standards and grade-level

Definition

conditions (University of Oregon). Universally refers to the rigor of the research that shows the item works across populations and

valid inferences about student performance can be made (NCEO & DRC). assessment. The results are not affected by disability, gender, race or English language ability and because items and tests are developed on the premise that every student is a participant in the Universally designed assessments allow participation of the widest possible range of students

Seven Principles

Inclusive Assessment Population

- will be tested When tests are first conceptualized, they need to be considered in the context of who
- state/district/school accountability plan, except those students who are assessed with an alternate assessment. The target population must include every student participating in the
- Item/test questions must not create barriers because of lack of sensitivity to disability cultural, or other subgroups.
- specifications. Accessibility to all students is incorporated as a primary dimension of the item/test

Precisely Defined Constructs

- Items/tests actually measure what they are intended to measure.
- types of people in public and private structures. Remove physical, sensory, cognitive and all non-construct-oriented barriers to all
- Remove extraneous information while creating items that
- are engaging,
- mirror sound instructional practices,
- contain "teachable moments,"
- are authentic, and
- are based upon real-life experiences.
- 200-300 percent item overage for UD review.] bias/fairness/sensitivity review, and universal design review. [DRC creates between Create an item poll large enough for items to survive the rigors of content review,

Avoid long repetitive distractors.

◆ Accessible, Non-Biased Items

- Items/tests are created with sensitivity to disability and cultural subgroups.
- Accessibility is built into items and into test specifications.
- Accessibility is woven into the fabric of the test as a primary dimension of test
- created because of lack of sensitivity to disability, cultural, or other subgroups Internal and external reviews of items and test specifications ensure that barriers are
- item/bias/universal design review committees. needs of students with disabilities and students with limited English proficiency in Encourage states/districts/schools to include experts who are familiar with the unique

→ Amenable to Accommodations

- Items must be compatible with accommodations.
- assistive technology. Items must be compatible with a variety of widely-used adaptive equipment and
- with the assessment being developed. Ensure that individual state guidelines on the use of accommodations are compatible
- Describe a graphic with words.
- measured, or the meaning or difficulty of the item. Create items that allow for changes to format without changing construct being

♦ Simple, Clear, and Intuitive Instructions and Procedures

- experience, knowledge, language skills, or current concentration level Assessment instructions should be easy to understand regardless of a student's
- Directions and questions should be stated in simple, clear, and understandable
- students cannot understand how they are expected to respond to a question Knowledge questions that are posed within complex language invalidate the test if

Maximum Readability and Comprehensibility

- Universally infers that text is maximally readable and comprehensible.
- sentence difficulty, organization of text, etc.; these features must be considered in during item development. Readability and comprehensibility characteristics are affected by student background,
- straightforward and concise']. Use plain language in assessments. [plain language is defined as "language that is
- DRC employs these strategies to produce plain language during the editing process:
- reduce excessive length
- use common words
- avoid ambiguous words
- avoid irregularity spelled words
- avoid inconsistent naming and graphic conventions
- avoid unclear signals about how to direct attention
- mark all questions
- simplify graphics and artwork

→ Maximum Legibility

Physical appearance and shapes of letters and numbers must be easy to read

- Style guidelines should include dimensions of universal design.
- Use common fonts (e.g. standard serif, sans-serif)

Guidelines for Universally Designed Items

1. Items measure what they are intended to measure.

- content standards Assure that writers and reviewers have a clear understanding of each state's academic
- ensure that each item reflects the intended content standard. In all phases of test development, present items with content standard information to

2. Items respect the diversity of the assessment population.

- Avoid item types that may unfairly advantage or disadvantage any student subgroup.
- Review items for issues of bias, fairness, sensitivity, and issues of cultural and regional diversity.

3. Items have a clear format for text.

- readability for all students. Decisions about how items are presented to students should allow for maximum
- Use common fonts such as Times New Roman or Arial.
- Use standard typeface; italics is far less legible and is read considerably more slowly.
- Use point sizes of 10 and 12 point for test booklets, captions, footnotes, keys, and
- Use point sizes for young students and those with visual difficulties.
- Use white space to increase legibility by creating
- sufficient spacing between letters, words, and lines,
- blankspace around paragraphs,
- blankspace between columns, and
- staggering right margins.

4. Stimuli and items have clear pictures and graphics.

- Pictures and graphics should provide essential information.
- Pictures and graphics should be clear and uncluttered.
- Illustrations should be placed directly next to the information to which they refer.
- Use labels where possible.
- Increase readability by using sufficient contrast between background and text.
- Increase readability for students with visual impairments by minimizing the use of
- Avoid use of color to convey important information.

5. Items have concise and readable text.

- Use simple, clear commonly used words whenever possible
- Omit unnecessary words and extraneous text.
- Use grade-level appropriate vocabulary and sentence complexity.
- Only use technical terms and abbreviations when they are related to the content being
- Ensure that definitions and examples are clear and understandable
- Avoid idioms, unless idiomatic speech is being assessed.
- Ensure that the questions to be answered are clearly identifiable.

6 Items allow changes to format without changing meaning or difficulty.

- Items should be created to allow for
- Braille or other tactile formats.
- signing to a student.
- the use of oral presentation,
- the use of assistive technology, and
- translation into other languages.

.7 The test has an overall appearance that is clean and organized.

- Avoid images, pictures, and text that may not be necessary or that may be distracting
- that is pertinent to the item. Omit extraneous topographical features from maps; use only the portion of the map
- Avoid decorative images.
- framework with a left-right, top-bottom flow. Organize information in a manner that is consistent with an academic English

Research Perspective

Current Status

- The NCEO website has posted training materials and information that includes
- Annotated guidelines
- Research supported statements
- Short form worksheets
- Completion of Delphi process (summer 2004)
- Training PowerPoint presentation
- Consideration "checkmarks" simply flag issues; issues are not solved
- The goal is transparency in process
- Choices must be made
- Training must focus on fixing problems and not just identification of them

Reliability

English language learners (ELL) and students with disabilities (SWD) assessment. Language factors may be the source of measurement error affecting the reliability of

Validity

- Language factors may be a source of construct irrelevant variance, threatening the construct validity of ELL and SWD assessment.
- language and of content. Linguistically complex, content-based test items may confound knowledge of
- Confounding complicates interpretation of assessment results for students who are
- questionable. Construct validity of assessments with unnecessarily complex language is

→ Threats to Internal Validity

- Selection
- Maturation
- Instrumentation
- Statistical regression
- Testing
- History
- Diffusion of treatment
- Experimenter bias

Threats to External Validity

- Random selection of subjects (ELL/LEP SWD, non-LEP/non-SWD)
- Intact classrooms versus randomly assigning subjects
- Willingness to participate
- Legal issues in random sampling
- Must have active consent
- The cultural and linguistic factors differ from state-to-state even for students who are of the same ethnicity

Disabilities Improve Assessment Quality for English Language Learners and Students with

- experimentally controlled conditions with the following characteristics: Reduce unnecessary linguistic modification on ELLs and SWDs under
- Manipulate the level of linguistic complexity of assessments and see the effect of manipulation on the outcome variable
- Randomly assign students (intact classrooms) to linguistically complex/non-complex groups
- Examine the effect of linguistic modification
- Control for students' reading ability by using reading score as a

Considerations and Recommendations from a Research Perspective

- other subgroups of students. have complex linguistic structures and may not be relevant for all ELL, SWD, and Existing and newly developed content-based achievement tests (NRT and CRT) may
- identified and removed in an experimentally controlled assessment situation. To increase authenticity of assessments for all, irrelevant constructs must be
- provide more valid assessment of ELLs. without disadvantaging other students. Such accommodations must be considered to Assessment accommodations can help ELLs and SWDs to show shat they know

Challenges

- Cost item development and refinement
- Aggravation assessment director blues
- Search for balance tossing items that can be saved, accepting trade-offs
- Assistive technology computer-based options
- Language proficiency tests vs. standards-based achievement tests different issues

Literacy Issues

What is literacy?

- Related to sanctity of the construct discussion
- Is it time to reconsider our content specifications?
- Do we need to rethink more than our assessments?
- Discussion points in NCEO literacy paper include
- reading standards in their current formats. Current large-scale assessments may not capture the complexities of state
- standards is an essential step that must be taken in all states reflect alternative modes of interaction with print are consistent with those Clarification of standards that are tested – and whether accommodations that
- catalyst for personal growth are being assessed modes when standards in the areas of comprehension, interpretation, and phonemic skill, and to have access to auditory and multiple print interaction Require students to read print using visual or tactile modes when testing
- to access non-decoding items multi-modally Align tests to reflect the diverse definitions of standards then allow students

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Making Text Legible for Everyone

10 Basic Guidelines for Making Text Legible

Impaired vision often makes reading difficult by:

- Reducing the amount of light that enters the eye
- Blurring the retinal image
- Damaging the central portion of the retina best suited to reading

impairs the ability to see small print and to make eye movements that are crucial to reading. Light reduction and blurring reduce the effective contrast of the text, while central retinal damage

Contrast

readers who are older or partially sighted, light (white or light yellow) letters on a dark (black) Text should be printed with the highest possible contrast. There is good evidence that for many dark on light may be aesthetically preferable. background are more readable than dark letters on a light background. However, the traditional



Type Color

highlighted text, such as headlines and titles. important for aesthetic or other reasons, but it is better to use such combinations only for larger or Printed material, generally, is most readable in black and white. Different colors may be Very high contrasts are difficult to achieve with color combinations other than black and white.



3. Point Size

between readability and point size differs somewhat among typefaces. Some states demand a Type should be large, preferably at least 16 to 18 points, but keep in mind that the relationship

larger point size (e.g., 20 or 22).

This type size is effective.

This type size is not as effective.

This type size is effective.

This type size is not as effective.

4. Leading

Leading, or spacing between lines of text, should be at least 25 to 30 percent of the point size. line while reading. This is because many people with partial sight have difficulty finding the beginning of the next

Leading, or spacing between lines of text, should be at least 25 to 30 percent of the point size. This is because many people with partial sight have difficulty finding the beginning of the next line while reading.

Effective leading

Leading, or spacing between lines of text, should be at least 25 to 30 percent of the point size. This is because many people with partial sight have difficulty finding the beginning of the next line while reading.

Not effective leading

Font Family

emphasis only. Standard serif or sans-serif fonts, with familiar, easily recognizable characters are best. Also, there is some evidence that sans-serif fonts are more legible when character size is small relative to the reader's visual acuity. Avoid complicated, decorative or cursive fonts and, when they must be used, reserve them for

Roman typefaces are effective. Decorative typefaces are not as effective. Sans-serif typefaces are not as effective.

6. Font Style

oblique or condensed. evidence that a roman typeface, using upper and lower cases, is more readable than italics, While there is little reliable information on the comparative legibility of typefaces, there is some

Upper and lowercase type is effective.

Italic type is not as effective.

Upper and lowercase type is effective.

Italic type is not as effective.

Letter Spacing

Text with close letter spacing often presents difficulties for readers who are partially sighted, especially those with central visual field defects. Where possible, spacing should be wide. Monospaced fonts rather than proportionally spaced fonts seem to be more legible for these

This letter spacing is effective.

This letter spacing is not as effective.

This letter spacing is effective.

This letter spacing is not as effective.

8. Margins

and video-magnifiers, are easiest to use on a flat surface. hold the volume flat. Spiral binding can be helpful as well. Many visual devices, such as stand-Extra-wide binding margins are especially helpful in bound material because it makes it easier to

Extra-wide binding margins are especially such as stand- and helpful in bound material because it makes it easier to hold the volume flat. Spiral binding can be helpful as well. 1" Many visual devices, such as stand- and video-magnifiers, are easiest to use on a flat surface.

Effective

Not as effective

9. Paper Finish

partial sight also have problems with glare Paper with a glossy finish can lessen legibility because many people who are older or who have

10. Distinctiveness

and those who are partially sighted. similar publications, especially for sets with volumes that differ only in title or number. Use of Visual impairment often makes it difficult to find a book or other document that is buried among distinctive colors, sizes and formats on the covers can be especially helpful to older individuals



Effective Color Contrast

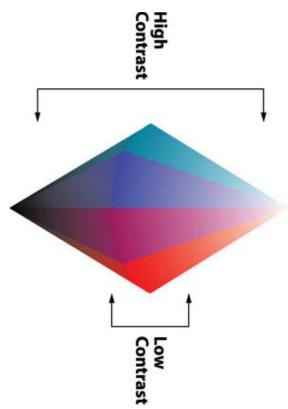
Basic Guidelines: Effective Color Choices that Work for Nearly Everyone

hue, lightness and saturation, in the particular way that they are used by vision scientists. The guidelines are better understood when we understand the three perceptual attributes of color:

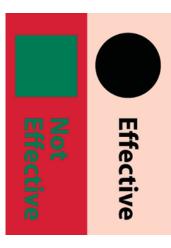
How does impaired vision affect color perception?

important to appreciate that it is the contrast of colors one against another that makes them more or less discernible rather than the individual colors themselves. with normal vision may be far less distinguishable to someone with a visual disorder. It is visual effectiveness of certain color combinations. Two colors that contrast sharply to someone Partial sight, aging and congenital color deficits all produce changes in perception that reduce the

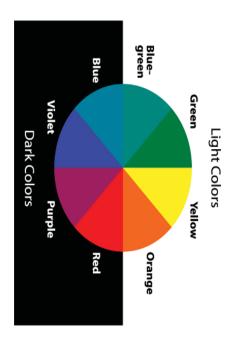
Three simple rules for making effective color choices:



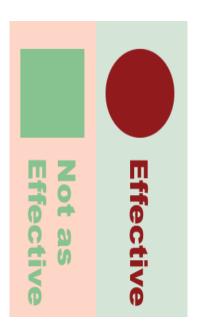
Exaggerate lightness differences between foreground and background colors, and avoid using colors of similar lightness adjacent to one another, even if they differ in saturation



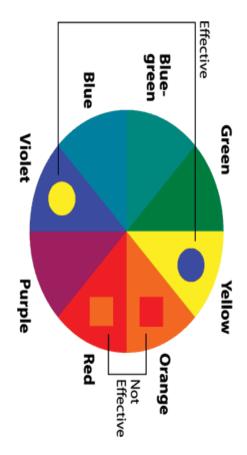
you will. If you lighten the light colors and darken the dark colors in your design, you will with color deficits. You can generally assume that they will see less contrast between colors than Don't assume that the lightness you perceive will be the same as the lightness perceived by people increase the visual accessibility.



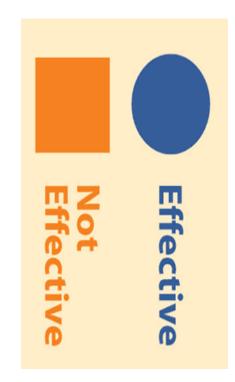
from the top half. the top half of the circle. Avoid contrasting light colors from the bottom half against dark colors 2. Choose dark colors with hues from the bottom half of the hue circle against light colors from



For most people with partial sight and/or congenital color deficiencies, the lightness values of colors in the bottom half of the hue circle tend to be reduced.

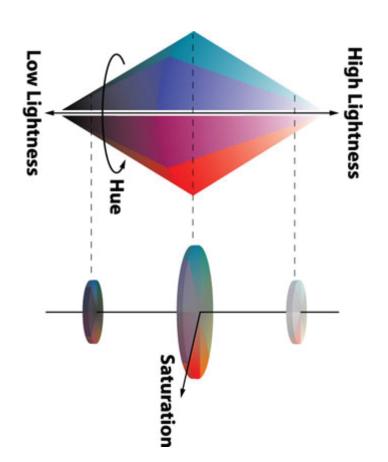


3. Avoid contrasting hues from adjacent parts of the hue circle, especially if the colors do not contrast sharply in lightness.

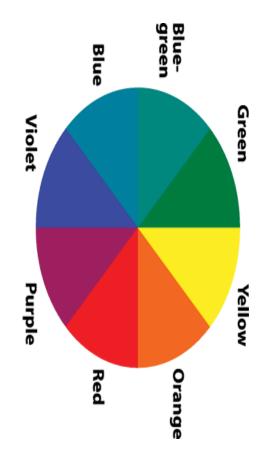


Color deficiencies associated with partial sight and congenital deficiencies make it difficult to discriminate between colors of similar hue.

Hue, lightness, and saturation - the three perceptual attributes of color - can be envisioned as a solid.

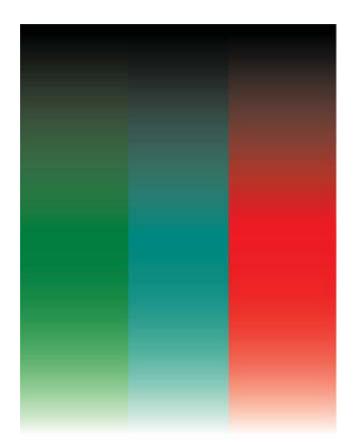


from the center. Hue varies around the solid; lightness varies from top to bottom and saturation is the distance

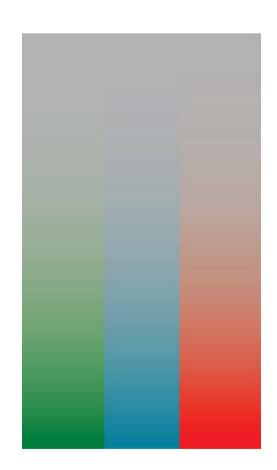


Hue is the perceptual attribute associated with elementary color names.

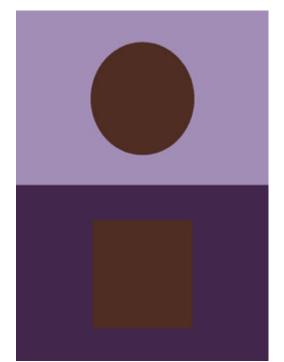
diminished. another. With most color deficits, the ability to discriminate between colors on the basis of hue is normal color vision report that hues follow a natural sequence based on their similarity to one Hue enables us to identify basic colors, such as blue, green, yellow, red and purple. People with



With color deficits, the ability to discriminate colors on the basis of lightness is reduced. physical measurements alone. It is the most important attribute in making contrast more effective. nearby surfaces. Lightness, like hue, is a perceptual attribute that cannot be computed from Lightness corresponds to how much light appears to be reflected from a surface in relation to



between colors on the basis of saturation. saturation. Congenital and acquired color deficits typically make it difficult to discriminate is similar to gray. A deep blue, even if it has the same lightness as slate blue, has greater white, black or gray of equal lightness. Slate blue is an example of a desaturated color because it Saturation is the degree of color intensity associated with a color's perceptual difference from a



attributes. can help to compensate for these deficits by making colors differ more dramatically in all three colors on the basis of all three attributes - hue, lightness and saturation -- is reduced. Designers panel appears to a person with normal color vision. With color deficits, the ability to discriminate To a person with color-deficient partial sight, the left-hand panel might appear like the right-hand

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Arditi, Aries. (2004) <u>Effective Color Contrast</u> International Lighthouse of the Blind website: http://www.lighthouse.org/index.html

Creating Better Tests for Everyone Through Universally **Designed Assessments**

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Abstract

level standards for all students who participate in the assessment. This paper explores the possible range of students, in a way that results in valid inferences about performance on grade-Universally designed assessments are designed and developed to allow participation of the widest development of universal design and considers its application to large-scale assessments.

assessment and instructional design, and research on topics such as assessment accommodations described. These elements were derived from a review of literature on universal design, Universal Design, 1997), seven elements of universally designed assessments are identified and (Thompson, Johnstone, & Thurlow, 2002). Building on universal design principles presented by the Center for Universal Design (Center for

The seven elements are:

- Inclusive assessment population
- 2. Precisely defined constructs
- 3. Accessible, non-biased items
- 4. Amenable to accommodations
- 5. Simple, clear, and intuitive instructions and procedures
- 6. Maximum readability and comprehensibility
- 7. Maximum legibility

elements are identified, with specific suggestions for ways in which assessments can be designed from the application of universally designed assessments are identified. to meet the needs of the widest range of students possible. Challenges and opportunities arising Each of the elements is explored in this paper. Numerous resources relevant to each of the

Creating Better Tests for Everyone Through Universally Designed **Assessments**

all students who participate in the assessment. widest possible range of students, in a way that results in valid inferences about performance for Thompson, & Lehr, 2001). Rather than having to retrofit existing assessments to include these many of whom have not been included in these systems in the past (Thurlow, Quenemoen, dramatically affecting the design of large-scale assessments is great. There is a tremendous push expanding into environmental initiatives, recreation, the arts, health care, and now, education. assessments), new assessments can be designed and developed to allow participation of the students (through the use of large numbers of accommodations or a variety of alternative include all students - including those with disabilities and those with limited English proficiency to expand national and state testing, and at the same time to require that assessment systems Despite a slow but steady start in its application to instruction (Hitchcock, 2001), the potential for Universal design is a concept that began in the field of architecture, but has been quickly

have a similar obligation: to ensure that any proposal from test developers meets criteria that option for test developers to ignore the possibilities that universal design can bring to truly the achievement of all students on grade-level standards are essential. There is no longer an reflect the elements of universal design highlighted in this paper. inclusive assessment systems. States that release requests for proposals for their state assessments With the shift to standards-based reform during the past decade, valid assessments for measuring

themselves are not the barriers to improved learning. Universally designed assessments are a student a comparable opportunity to demonstrate achievement of the standards being tested promising approach to providing appropriate assessment conditions for all students, giving each Universal design opens the door to rethinking assessments—to ensure that the assessments

Background

group of students need changes in the regular assessment. an alternate assessment (Thompson, Quenemoen, Thurlow, & Ysseldyke, 2001). A much larger of students need a completely different assessment, identified in federal special education law as in assessments or receive valid scores unless something is changed. Only a very small percentage participate in state and district assessments today. The use of accommodations - changes in administration procedures or materials – is evidence that there are students who cannot participate The standard administration of assessments is not appropriate for all students who must

afterthought once the test has been developed, administered, and used. It must be confronted the National Research Council (1999), "fairness, like validity, cannot be properly addressed as an and decisions about who should participate in alternate assessments has become very complex. throughout the interconnected phases of the testing process, from test design and development to which students should have access to accommodations and how decisions are made. According to There is a great deal of controversy about the "fairness" of many test accommodations and about Because of the emphasis on testing and including all students, the provision of accommodations

so forth... Fairness also requires that all examinees be afforded appropriate testing conditions" (p conditions and equal opportunity to become familiar with the test format, practice materials, and examinees be given a comparable opportunity to demonstrate their standing on the construct(s) administration, scoring, interpretation, and use" (p. 81). The Standards for Educational and the test is intended to measure. Just treatment also includes such factors as appropriate testing Psychological Testing (AERA, APA, NCME, 1999) also address this need by requiring that "all

issues, an approach in which increased access for all students is considered. implemented as intended. It is time to take a more global approach to addressing these testing about what the policies really are, and decreasing the likelihood that the policies will be (Thurlow, Lazarus, Thompson, & Robey, 2002), thereby increasing the likelihood of confusion invalidate assessment scores. Further, they frequently revise their accommodation policies Blount, & Thurlow, 2002; Thurlow & Bolt, 2001; Tindal & Fuchs, 1999). States grapple with rarely provides conclusive evidence about the effects of accommodations on validity (Bielinski & Research to validate accommodation use is growing, but the research is difficult to conduct and decisions about which accommodations should be included in school accountability and which Sheinker, 2001; Elliott, Kratochwill, & McKevitt, 2001; Koretz, & Hamilton, 2000; Thompson,

Applying Universal Design to Assessments

education. Principles of universal design that traverse all of these areas have been developed (see application has spread rapidly into environmental initiatives, recreation, the arts, health care, and Table 1). It is reasonable to expect that they can apply equally as well to large-scale assessments. The concept of universal design is not new. Its use began in the field of architecture, but its

Approach and Use Low Physical Effort Tolerance for Error Perceptible Information Simple and Intuitive Flexibility in Use Principle Size and Space for Equitable Use user, regardless of ambient conditions or the user's sensory abilities The design communicates necessary information effectively to the The design can be used efficiently and comfortably and with a accidental or unintended actions. experience, knowledge, language skills, or current concentration level. abilities. The design accommodates a wide range of individual preferences and The design is useful and marketable to people with diverse abilities. Explanation manipulation, and use regardless of user's body size, posture, or Appropriate size and space is provided for approach, reach, minimum of fatigue. The design minimizes hazards and the adverse consequences of Use of the design is easy to understand, regardless of the user's mobility.

Table 1. Principles of Universal Design in Architecture and Other Areas

Source: The Center for Universal Design, North Carolina State University (1997)

instructional needs rather than on all the changes that will have to be made for the student to be reduced if assessments could be universally designed. Universally designed assessments are develop assessments that allow participation of the widest range of students, and result in valid state and district assessments. participate in the assessment. Universal design is the best way to increase participation in general Program (IEP) process. Instead, they could make the IEP process richer by focusing on not intended to eliminate individualization, or to take away from the Individualized Educational inferences about their performance. The need that many students have for accommodations could The goal of applying universal design principles to assessments is to be able to design and

disadvantaged during testing no matter how universal the design of the assessment. disability, gender, race, English language ability, or levels of anxiety about tests. On the other people with disabilities and others in schools, communities, and on the job – an ethic that values instruction. Students who have not had an opportunity to learn the material tested will be hand, it is important to remember that universal design does not address deficiencies in differences in age, ability, culture, and lifestyle. Test performance should not be affected by Universal design is based on the same ethics of equity and inclusiveness that are expected for

Elements of Universally Designed Assessments

(Thompson et al., 2002). This review produced a set of seven elements of universal design that apply to assessments (see Table 2). Each of these seven elements is discussed here research relevant to the assessment development process and the principles of universal design The National Center for Educational Outcome (NCEO) has conducted an extensive review of all

Maximum Legibility Maximum Readability and **Precisely Defined Concepts** Population Element Comprehensibility Instructions and Procedures Simple, Clear, and Intuitive Accommodations Accessible, Non-Biased Amenable to Inclusive Assessment to tables, figures, and illustrations, and to response formats kept to a minimum) to produce readable and comprehensible text. followed (e.g., sentence length and number of difficult words are understandable language. (e.g., all items can be Brailled). review procedures ensure that quality is retained in all items. Accessibility is built into items form the beginning, and bias barriers can be removed. construct irrelevant cognitive, sensory, emotional, and physical this is reflected in assessment design and field testing procedures. include every student except those in the alternate assessment, and Explanation A variety of readability and plain language guidelines are All instructions and procedures are simple, clear, and presented in Tests designed for state, district, or school accountability must Characteristics that ensure easy decipherability are applied to text, The test design facilitates the use of needed accommodations The specific constructs tested must be clearly defined so that all

Table 2. Elements of Universally Designed Assessments

Based on Thompson, Johnstone, and Thurlow (2002). Inclusive Assessment

Population

of students in the general curriculum, and increased emphasis and commitment to accountability need to be responsive to growing demands - increased diversity, increased inclusion of all types state, district, or school accountability purposes, the target population must include every student tested (AERA, APA, NCME, 1999; National Research Council, 1999). If the test is designed for for all students. except those who will participate in accountability through the alternate assessment. Assessments When tests are first conceptualized, they need to be thought of in the context of who will be

Precisely Defined Constructs

designed architecture removes physical, sensory, and cognitive barriers to all types of people in items that offer the greatest opportunity for success within those constructs. Just as universally measurement" (p. 3). Test developers need to carefully examine what is to be tested and design intended to measure. According to Popham and Lindheim (1980), "a test development project irrelevant cognitive, sensory, emotional, and physical barriers. public and private structures, universally designed assessments must remove all construct begins with a careful consideration of the skills or attitudinal characteristics proposed for An important function of well-designed assessments is that they actually measure what they are

Accessible, Non-Biased Items

that accessibility is woven into the fabric of the test rather than being added after the fact characteristics of students, and the characteristics of items that might create difficulties for any Items are reviewed through bias review or sensitivity review procedures to ensure that they do not (Kopriva, 2000). group of students. Accessibility is incorporated as a primary dimension of test specifications, so perhaps more important, items are developed by individuals who understand the varied create barriers because of lack of sensitivity to disability, cultural, or other subgroups. But,

Amenable to Accommodations

of the test: Braille as an accommodation will be facilitated if the following features are avoided in the design a variety of widely used adaptive equipment and assistive technology. For example, the use of will still be some students who continue to need accommodations. Thus, another essential Even though items on universally designed assessments will be accessible for most students, there element of any universally designed assessment is that it is compatible with accommodations and

- Use of construct irrelevant graphs or pictures
- Use of vertical or diagonal text
- Keys and legends located to the left or bottom of the item, where they are more difficult to locate in Braille formats
- Items that depend on reading of graphic representations (such as blueprints, furniture in a room) that do not also have verbal/textual descriptions that can be translated into
- Items that include distracting or purely decorative pictures, which draw attention away from the item content

possibly also for many students for whom visual features may create distractions. These features are also relevant for students with visual disabilities who do not use Braille, and

Simple, Clear, and Intuitive Instructions and Procedures

are posed within complex language certainly invalidate the test if students cannot understand how that the test developer intended" (AERA, APA, NCME, 1999, p. 47). Knowledge questions that simple, clear, and understandable language so that "test takers can respond to a task in the manner Rock & Powers, 1988). they are expected to respond to a question (Elliott, 1999; Willingham, Ragosta, Bennett, Braun, knowledge, language skills, or current concentration level. Directions and questions need to be in Assessment instructions should be easy to understand, regardless of a student's experience,

Maximum Readability and Comprehensibility

developing the text of assessments. sentence difficulty, organization of text, and others. All of these features need to be considered in and comprehensibility are affected by many characteristics, including student background, & Clark, 1995). These features go beyond what is measured by readability formulas. Readability A variety of guidelines exist to ensure that text is maximally readable and comprehensible (Gaster

concise. Several strategies that have been identified for editing text to produce plain language are reading in English. Plain language has been defined as language that is straightforward and assessment with high proportions of word problems was directly related to their proficiency in shown in Table 3. Kiplinger, Haug, and Abedi (2000) found that the performance of students on a mathematics Plain language is a concept now being highlighted in research on assessments. For example,

Table 3. Plain Language Editing Strategies

Give an obvious graphic signal (e.g., bullet, letter, number) to indicate separate questions.	Mark all questions
Well-designed heading and graphic arrangement can convey information about the relative importance of information and order in which it should be considered.	Avoid unclear signals about how to direct attention
Avoid multiple names for the same concept. Be consistent in the use of typeface.	Avoid inconsistent naming and graphic conventions
Replace proper names with simple common names such as first names.	Avoid proper names
Examples of irregularly spelled words are "trough" and "feign."	Avoid irregularly spelled words
For example, "crane" should be avoided because it could be a bird or a piece of heavy machinery.	Avoid ambiguous words
Eliminate unusual or low frequency words and replace with common words (e.g., replace "utilize" with "use").	Use common words
Reduce wordiness and remove irrelevant material.	Reduce excessive length
Description	Strategy

Source: Brown (1999).

Maximum Legibility

enable people to read text easily. As delineated by Schriver (1997), a leading document designer, text that is legible can be read "quickly, effortlessly, and with understanding" (p. 252). Despite a of editors about how they want text to look often prevail. great deal of research on what the characteristics of maximum legibility are, the personal opinions Legibility is the physical appearance of text, the way that the shapes of letters and numbers

and tables, illustrations, and response formats (see Table 4). contrast, type size, spacing, typeface, leading, justification, line length/width, blank space, graphs understanding of the constructs that test items are intended to assess. Dimensions can include Bias results when tests contain physical features that interfere with a student's focus on or

Table 4. Dimensions of Legibility and Characteristics of Maximum Legibility

Response Resp Formats as mu	Illustrations When needed and rethey	Graphs and Syml Tables direc requi	Blank Space A geanch	Line Length Optii reade reade	Justification Unju justif	Typeface Stand slantt	Leading Lead avoic with	Spacing The a to be legib	Type Size Large stude size i	Contrast Blacl and e	
Response options should include larger circles (for bubble response tests), as well as multiple other forms of response.	When used, an illustration should be directly next to the question for which it is needed. Because illustrations create numerous visual and distraction challenges, and may interfere with the use of some accommodations (such as magnifiers), they should be used only when they contain information being assessed.	Symbols used on graphs need to be highly discriminable. Labels should be placed directly next to plot lines so that information can be found quickly and not require short-term memory.	A general rule is to allow text to occupy only about half of a page. Blank space anchors text on the paper and increases legibility.	Optimal length is about 4 inches or 8 to 10 words per line. This length avoids reader fatigue and difficulty locating the beginning of the next line, which causes readers to lose their place.	Unjustified text (with staggered right margin) is easier to see and scan than justified text especially for poor readers.	Standard typeface, using upper and lower case, is more readable than italic, slanted, small caps, or all caps.	Leading, the amount of vertical space between lines of type, must be enough to avoid type that looks blurry and has a muddy look. The amount needed varies with type size (for example, 14-point type needs 3-6 points of leading).	The amount of space between each character can affect legibility. Spacing needs to be wide between both letters and words. Fixed-space fonts seem to be more legible for some readers than proportional-spaced fonts.	Large type sizes are most effective for young students who are learning to read, students with visual difficulties, and individuals with eye fatigue issues. The legal size for large print text is 14 point.	Black type on matte pastel or off-white paper is most favorable for both legibility and eye strain.	тамини веденну спатаскетовке

Challenges and Opportunities

opportunities that arise as this application occurs. publishers consider how to apply the elements to assessments. There are both challenges and The application of universal design to assessments is just beginning as test developers and

are easier to understand than item difficulty statistics and more engaging for item reviewers, and test and item developers as well as item reviewers to consider. The criteria that define good items designed assessments are numerous. With the emphasis on universally designed assessments delivered on a variety of different systems with a variety of assistive technologies (e.g., screen of students might actually make it less accessible to another group of students. The principles of the test is accessible to all students. Changes that might make a test more accessible to one group all" to the problems of assessment. Just because a test is universally designed does not mean that Perhaps the greatest challenge is the perception that a universally designed assessment is a "cureminor changes, or that may not have design problems that actually affect a student's response. designed assessments may prompt some reviewers to throw away items that may be usable with figured out - we do not know when the right balance has been reached to achieve the best item specific criteria for putting all the universal design considerations together have not yet been incorporation of universal design elements may seem expensive. Another challenge is that the development costs will increase at a time when the costs of assessments are already seen by some marketable, and truly make the assessments more inclusive of the entire population to be assessments so that they are more compatible with accommodations, help make assessments more within assessment contexts. In the end, universally designed assessments should open up criteria have research-based support in isolation, and now can be subjected to additional research including those familiar with disability, language acquisition, and technology. Furthermore, the present an opportunity for bringing more people to the table in the early stages of test design, guidance for item development is becoming clearer and more systematic, with specific criteria for Despite the challenges, the potential opportunities to be gained from developing universally based assessments in a more universally accessible manner is an endeavor worth pursuing readers). Trying to anticipate these issues is important, however, and trying to design computerbased assessments. It is difficult to anticipate what accessibility issues will arise when a test is the proper balance for universally designed paper and pencil tests translates as well to computersomething that can magically make all tests accessible to all students. The challenge of finding universal design can be a useful tool for developing better assessments, but they are not another challenge that the testing community and standards committees need to address. The desire for authenticity and whether authenticity is more important than universal design is possible. Item review teams need to be cautious. Implementing the principles of universally money in not having to throw out items later in the test development process, the initial as excessive. Even though the incorporation of universal design should ultimately save time and Among the challenges associated with universally designed assessments is the possibility that

Summary

and development. With the increased emphasis on testing in the nation's schools in response to means is still undergoing clarification. It is likely that the elements of universally designed research and innovation to expand our knowledge in this area. Universal design opens the door to require the consolidation and application of current best practices in assessment, along with federal and state mandates, it is essential that this progress occur as rapidly as possible. This will assessments will be expanded and become more concrete as they are applied to assessment design The concept of universally designed assessments is relatively new, and therefore what it actually

about how to create national, state, and district assessments that give a more accurate picture of what all students know and can do so that educators can focus on the critical target of providing universally designed standards-based instruction. improved learning. The concept of universal design helps us to rethink our basic assumptions ways to rethink assessments to ensure that it is not the assessment itself that produces barriers to

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email: thomp178@umn.edu Address correspondence to Sandra Thompson, National Center on Educational Outcomes, 44), and Universally designed assessments: Better tests for everyone! (Policy Directions No. 14). Educational Outcomes: Universal design applied to large scale assessments (Synthesis Report This article is based on information contained in two publications of the National Center on University of Minnesota, 350 Elliott Hall, 75 East River Road, Minneapolis, Minnesota 55455,

Author Bios

developmental disabilities. department of education and 10 years as a special education teacher, working with students with state and district standards and assessments. Dr. Thompson has an extensive background in research activities that document the participation and performance of students with disabilities in preparing students with disabilities for successful adult lives, spending 10 years with Minnesota's Outcomes (NCEO) at the University of Minnesota, where she is responsible for a number of Sandra Thompson, Ph.D. serves as a Research Associate at the National Center on Educational

general education settings. dropout prevention, effective classroom instruction, and integration of students with disabilities in areas, including assessment and decision making, learning disabilities, early childhood education, Thurlow has conducted research involving special education for the past 30 years in a variety of Martha Thurlow, Ph.D. is the Director of the National Center on Educational Outcomes (NCEO) assessment policies and practices, standards-setting efforts, and graduation requirements. Dr. U.S. policy and practice for students with disabilities, including national and statewide at the University of Minnesota. In this position, she addresses the implications of contemporary

University of Maryland, and taught school at elementary and secondary levels in Salt Lake City, U.S. Department of Education. His responsibilities include projects related to large-scale David Malouf, Ph.D. is a Research Analyst with the Office of Special Education Programs in the technology and media services program for students with disabilities. Before coming to the assessment, accountability, accommodations, and alternate assessments. He also works with the Department of Education in 1991, Dr. Malouf was a faculty member and researcher at the

Design of Accessible Online Education

Notes from Georgia Leadership Institute

Prepared by

Carol Price
Director, Alternate Assessments
Data Recognition Corporation

August 18 – 20, 2005

New Directions: Where do we go from here? 48 Websites and Links to Accessibility Resources 52	Authoring Tools -Accessibility by Exceptions or Universal Access for All: Jon Gunderson	The State of Accessibility Policy in Distance Education: Cyndi Rowland46	Voluntary Guidelines for Accessible Distance Education: Curtis Edmonds and Robert Todd	Finding Your Champions - Creating Accessibility Buy-In	Accessible Course Design and Course Retro-Fit42	Adopting Best Practices for Accessible e-Learning from Corporate and Government42	Accommodations in the Delivery of Online Education41	Best Practices - Current Thinking, New Directions38
48	47	46	:: 44	43	42	42	41	38

Abstract

new initiatives, and examine central issues in designing accessible online education. administrators, professors, and design technologists from across the country to exchange ideas, discuss The purpose of this invitation only leadership institute is to provide an opportunity for researchers,

included the following: Institute participants examined current topics related to accessible online education. Topics covered

- research outcomes in accessible distance education,
- implications of research outcomes for higher education,
- model programs and assessment,
- specific technologies and assessment,
- improving practices and influencing policy on accessible distance education,
- solutions to barriers encountered when designing accessible course material, and
- creating accessible courses enhance higher education instruction.

disabilities in the development and assessment of accessible technology-based programs. Participants were challenged to assist in the development of effective policies that include students with

Best Practices - Current Thinking, New Directions

Information Presenter: Norman Coombs, CEO, Equal Access to Software and

those years he has taught classes online. Dr. Coombs has taught history at the Rochester Institute of Technology (RIT) for 43 years and for 20 of

History of E-Learning

- Computers were first operated from a centralized mainframe and modem.
- The New Jersey Information Technology System provided users with keyboard commands.
- Bulletin boards afforded information exchange among users.
- Next came the command-prompt interface.
- FTP and Telnet sites were next on the horizon.
- Only text was transmitted via a computer; early computers could not handle pictures or graphics
- The first personal computer functioned like dumb terminal and had minimal memory.
- employ online instruction at RIT for one of the classes he taught. Few online courses were available; Dr. Coombs applied for and was awarded a federal grant to
- students who were disabled. computer to communicate with students and it opened new avenues of communication with Dr. Coombs quickly learned that he could engage students in a different way by using the
- The advent of the World Wide Web decentralized computing.
- transmissions, text, and various types of mixed media. Hypertext interface allowed for quick transfer of information including: graphics, videos, audio
- This opened the doors to the information highway.
- As the Web developed it created the need for guidelines and standards to regulate standards for Web design and accessibility.
- Web Accessibility Initiative (WAI) guidelines and Section 508 standards have significantly contributed to the development of Web authoring tools that facilitate the creation of accessible

approved. WAI standards are quite rigorous and are very difficult to meet. On the other hand, Section 508 then Section 508, and the passing of the American with Disabilities Act (ADA). possible reason for the push for compliance is due to federal legislation which began with Section 504, become more educated about online instruction, they are requiring that vendors meet 508 standards. One standards (developed by the government) require meeting minimal standards of compliance. As states WAI has created a standards checklist and many grant applications demand that software is WAI

Online education consists of two major components:

- infrastructure the learning management systems, Web pages, and various types of multimedia
- content course information that is delivered through the infrastructure

developers of the architecture of the infrastructure and the developers of the content. It is important for that impacts the message. the medium (the infrastructure) and the message (the content) to be accessible because it is the medium Both the infrastructure and the content must be accessible. Often there is a disconnect between the

comparison are presented in Table 1 below A comparison between online learning and face-to-face learning was addressed and the results of this

Table 1.

	Online Learning	Face-to-Face Learning
Classroom	Virtual	Physical building
Instruction	Increased flexibility	Rigid or controlled
Method	Holistic, multi-directional, interactive	Linear, step-by-step pre-determined by the teacher
Focus	Student centered	Teacher controlled
Schedule	Teacher has control of one schedule and	Teacher has control of one schedule and Controlled by the system and/or the teacher; limited
	they can still be accessible to the students	accessibility to the students
Variety	Increased use of mixed multi-media,	Increased use of mixed multi-media, One way monologue, usually delivered via a lecture
	PowerPoint presentations, videos, etc.	
Modality	Highly interactive	Teacher dominated, little student interaction
The	The guide on the side	The sage on the stage
Teacher		

Universal Content Design of Web Pages

- Modularize content pages need to be clean and free from extraneous design elements
- Use redundant communication modes
- Use simple, clear language
- Use short sentences and short paragraphs
- Use active verbs
- Provide content previews and content summaries
- Provide frequent opportunities for interaction with the students
- Avoid designs that distract from content
- Create opportunities for students to engage
- Avoid one-way information monologues

they understand WAI and 508 standards and require little instruction; others need in-depth instruction about the design of appropriate accessible content. Training for content developers has to occur on two levels: some have advanced Web design skills and

508 core standards include the design and presentation of

- Images
- Multimedia
- Color
- Tables
- Text pages
- facilitate quick movement through the website) Skip navigation (skip navigation allows the user to skip over redundant text or images to

Three necessities regarding accessibility of online education materials:

Have teachers carefully and thoughtfully plan the content before creating it online.

- 5
- ω Have teachers focus on simple, clear, focused content design and minimize their use of needless flashy features that distract from the content.

 Help teachers locate and learn commonly used content authoring applications in ways that result in development of universally designed content without faculty having to become trapped in learning complex technical tools.

Accommodations in the Delivery of Online Education

Foundation for the Blind) Sue Byrd Steinweg (Assistant Professor, East Carolina University), State University), Randall McDaniel (Professor, Auburn University), University of Arkansas), Joe Koncelik (Professor Emeritus, Ohio Panelists: Larry Dickerson (Professor/Program Coordinator Karen Wolfe (Director, Professional Development, American

discussion are cited below. Panelists briefly discussed issues critical to their areas of expertise. Highlights of the interactive

Problems

- Awareness among teachers and administrators is critical.
- Implementation decisions are not made by teachers who use the technology; decisions are made by administrators whose major concern is cost.

Presentations and Instruction

- Write content in a way that is engaging for the student.
- Write text that is accessible.
- Keep presentation style simple.
- Use an easy-to-read font (e.g., Sans Serif or Arial).
- Avoid bullets and dashes.
- Describe pictures and graphics.
- accommodate text readers. When creating handouts, determine if the handout has value. Strip out formatting to
- For online presentations, use threaded discussions instead of chats
- Use applied learning activities.
- Allow students to direct their own learning.
- Create lessons that allow for individualized learning.
- Decide what supports need to be in place for successful implementation.
- Provide transcripts of audio presentations.
- Avoid the use of acronyms.

Training

- Diversity training usually involves race and gender equity issues.
- Accessibility issues and concerns need to be included in diversity training classes.
- decisions for higher-education faculty members. For accessibility to be perceived important, it needs to be included in promotion and tenure

Corporate and Government Adopting Best Practices for Accessible e-Learning from

Presenter: Debra M. Ruh, President, TecAccess

Several issues prevent users from fully accessing e-learning opportunities:

- Some require help with installation of software and applications
- Sometimes the launch works, but the content is not appropriate for web delivery.
- Sometimes the content is solid, but the program will not launch.
- There are often conflicts with assistive technology devices and some may prevent others from

technology must work together. is a necessity and the most common mistake concerning e-learning is not realizing that content and vendor products for 508 compliance. The most common mistake with 508 compliance is not believing it President Bush has eight technology initiatives; one of which is that the government plans to begin testing

Ms. Ruh provided participants with much information and website links to explore. Website links from this and other presentations are included on pages 21-23 of this report.

Accessible Course Design and Course Retro-Fit

Protection & Advocacy, Inc.), Joe Koncelik (Professor Emeritus, Ohio State University), Robert Todd (Research Scientist, Georgia Tech) Presenters: Curtis Edmonds (Senior Staff Attorney, New Jersey

The challenges, the pitfalls, and the successes of these courses were discussed. When creating e-courses. visual images require alternate texts that explain the purpose of the graphic. The GRADE project features three courses that highlight accessibility process and solutions to problems. Real-world challenges faced by those who create accessible distance education courses were examined

HTML Web classes require:

- logical consistent navigation
- text descriptions for all PowerPoint slides, graphics, charts, and tables
- transcripts for each sound file
- D-Links which are description hyperlinks that provide explanations of pictures and graphics

Problems encountered include:

- allowing sufficient time to develop content and accessible features
- deciding which format to use —HTML or PHP
- completing literature reviews
- testing of template design
- checking accessibility of the template
- checking the accessibility of the content
- ensuring all pages have a consistent look and feel

- ensuring coding is consistent throughout
- ensuring consistency of color schemes (e.g., high contrast for people with low vision)
- including skip navigation links on the top of the application
- testing accessibility
- using active voice
- keeping accessible features visible, thus enabling the tool to become a teaching tool itself
- ensuring that image maps, tables, PowerPoint slides, and Excel charts are accessible
- evaluating each page for accessible errors

developed and taught on-site at the Georgia Tech College of Architecture. This course provides an challenging than creating an accessible online course from scratch. example of a course retrofitted after completion for accessibility. Retrofitting courses is often more Designing for the Life Span is an undergraduate course in human factors design and engineering

instructors of high school civics and undergraduate political science courses. create a website that is accessible to all. This module on the federal court system is designed for Federal Courts Concepts is one of several modules created from scratch using fully accessible software to

online course and this year the goal is to have all the classes online online presentation. Georgia Tech has a state-of-the-art technology in which to create the converted Introduction to Fluid Mechanics is an example of a graduate-level course that has been converted to

Finding Your Champions – Creating Accessibility Buy-In

Disability and Business Technical Assistance Center Presenter: Kevin Price, Education and IT Specialist, Southeast

described the key stakeholders that are necessary to create change in information technology accessibility. that creating "buy-in" requires commitment, time, and information sharing A discussion of the factors used to motivate stakeholders and how to replicate this motivation revealed content and for those who are creating the technology infrastructure for the content. This presentation Accessibility to online distance education costs in terms of time and money for those who develop course

Identify "champions" a.k.a. key stakeholders who can:

- provide leadership
- share common values regarding accessibility
- have access to resources to make change happen
- invite new opportunity and enjoy promoting a cause
- have connections with peers and with a network of others

Creating Buy-In – the Process

- gather those who have an interest in accessibility
- seek people from a variety of backgrounds
- seek people who have established that they favor accessibility
- seek administrators that have power to effect change
- seek those who know information technology
- seek end users persons with disabilities
- define the important issues
- concerns family and personal
- relationships friends and foes
- select a few issues (namely, those that will lead to success)
- package the message
- determine what consistent themes are to be included in the message
- identify resources
- define terms in easy-to-understand language
- determine modes of communication
- word of mouth
- advertisement
- social
- political
- determine mechanisms for communication
- o e-mail
- o newsletter
- o blogging
- discussion lists
- o websites
- o chats
- provide necessary support
- ensure that resources are adequate
- identify one point-of-contact
- provide training
- schedule ongoing meetings

Voluntary Guidelines for Accessible Distance Education

Presenter: Curtis Edmonds (Senior Staff Attorney, New Jersey Georgia Tech) Protection & Advocacy, Inc.) and Robert Todd (Research Scientist,

distance education programs use these "second generation" documents, such as Microsoft PowerPoint nor the WCAG cover "second generation" documents produced using non-HTML formats. Online government or the Web Content Accessibility Guideline (WCAG) promulgated by the World Wide Web Many colleges and universities have adopted either the Section 508 standards as defined by the federal Those creating such documents need guidance on the appropriate way to offer these documents in an presentations, Macromedia Flash animations, and Adobe Portable Document Format files, extensively Consortium (W3C) as part of their Internet accessibility policies on their campuses. Neither Section 508

MERLOT, has developed a draft set of voluntary standards for "second generation" documents. These accessible manner for all students, including students with disabilities. GRADE, in cooperation with accessibility in the field of distance education. voluntary standards can be adopted immediately by colleges and universities who are committed to

What is Section 508?

Section 508 of the Rehabilitation Act requires that when Federal agencies develop, this technology allows: procure, maintain, or use electronic and information technology, they shall ensure that

- Federal employees with disabilities to have access to and use of information and data that is undue burden would be imposed on the agency, and comparable to that by Federal employees who are not individuals with disabilities, unless an
- a Federal agency, to have access to and use of information and data that is comparable to that Individuals with disabilities, who are members of the public seeking information or services from provided to the public who are not individuals with disabilities.

level of accessibility. These technology-specific provisions address: charged with developing technical and functional provisions to establish a minimum The Architectural and Transportation Barriers Compliance Board (or Access Board) was

- software applications and operating systems,
- web-based information or applications,
- telecommunications products,
- video or multi-media products,
- self contained, closed products such as information kiosks and transaction machines, and
- desktop and portable computers.

realize that the scope of Section 508 is limited to the Federal sector. It does not apply to the people with disabilities use for information and communication access. It is important to private sector, nor does it generally impose requirements on the recipients of Federal These provisions also address compatibility with assistive technologies that some

procuring EIT. a complaint alleging that a Federal agency fails to comply with Section 508 when promote compliance. Section 508 provides that any individual with a disability may file The law establishes a complaint procedure and reporting requirements that further

What is Section 504?

Section 504, and unfunded federal mandate, is a civil rights law that prohibits discrimination against individuals with disabilities. Section 504 ensures that the child

accommodations and modifications. with a disability has equal access to an education. The child may receive

parents under Section 504 than under IDEA. require the school to provide an individualized educational program (IEP) that is benefit. Fewer procedural safeguards are available for disabled children and their designed to meet the child's unique needs and provides the child with educational Unlike the Individuals with Disabilities Education Act (IDEA), Section 504 does not

The State of Accessibility Policy in Distance Education

Disabilities and Access to Education Presenter: Cyndi Rowland, Technology Director, National Center on

specific policies successfully used in education were mentioned touchstone for accessibility reform. The status of federal and state policy was discussed. In addition, an environment where access is expected. However, there are many difficulties using policy as the choice in their education, of concern is how is student choice best accomplished. The use of policy can set as a significant barrier in the education of students with disabilities. All students should have the right of The direct accessibility of distance education has improved over the years and at the same time continues

Statistics

- 5% of Americans report a disability
- 9% of entering college freshman report a disability
- 8.5% of the general population have a disability that affect computer and Internet use
- 90% of public institutions offer distance education opportunities
- 48% of students at postsecondary institutions request accommodations
- 24% of postsecondary institutions have accessible websites
- 90% of all access errors on the Web regarding accessibility involve graphics and other images

design accessible Web pages, many developers state that: Web accessibility is required by federal statues and many state statutes. When asked why they do not

- they were not aware of the problem;
- accessibility will hinder the look, feel, and functionality of the site:
- they need training
- they don't know how to do it
- they don't have the budget to purchase accessibility software

monitored and they provide training and assistance for staff. Institutions that have made successful transitions to accessible Websites have instituted policies that are

The Rehabilitation Act impacts accessibility:

Section 504

- impacts all federally funded programs
- affirmative obligation to plan in advance
- courts are knocking down past accommodation policies
- Section 508
- impacts all federally funded programs
- interpreted not to apply to states with Technical Act monies
- used to design the baseline for access
- emerging in federal RFPs and contracts
- emerging in procurement language
- voluntary self reporting protocol for assistive technology
- VPATs continue to be problematic
- monitoring is poor
- "access" means different things to different segments of society
- Model for Access
- reactive not proactive
- native access can be achieved, but model reinforces "accommodation"
- Influence Points
- become involved with reauthorization
- connect with the Access Board

NIMAS

what the vendors voluntarily provide when they adhere to National Instructional Materials Accessibility but small independent publishing companies are complying. This could force larger companies to comply. Standards (NIMAS). Large corporate publishers have been reluctant to comply with NIMAS standards. The federal government has determined that states can write their own plan or they can accept

position that there was no need to put closed captions on video streams. Berkley's position was that they with disabilities won because the court ruled the Berkley denied the students a choice met the letter of the law by providing interpreters and therefore captions were not necessary. The students Landmark court case: University California at Berkley spent more than \$1 million dollars to defend its

Authoring Tools – Accessibility by Exceptions or Universal Presenter: Jon Gunderson, Coordinator of Information Technology Access for All

Accessibility, University of Illinois at Urbana/Champaign

design; in other words, by using the tool the accessibility features would be automatically built into the by default." The default process would enable the creation of instructional materials to support accessible are available. This method is defined as "accessibility by exception" and we need to have "accessibility able to translate those techniques into the capabilities, or lack of capabilities, of the authoring tools that materials, but it is still up to the author to have the knowledge of accessible design techniques and then be accessibility. Current authoring tools may make it possible for people to create accessible online improve accessibility for those who are disabled. Website. The ultimate goal is to provide all users with more options and flexibility, and not to only The key to the future of accessibility of online resources is the ability of authoring tools to support

touches everyone, not just the disabled, the easier it will be for policy to be enacted. disabled. Likewise, the ramps and accessible curbs provide accessibility to people who are pushing baby strollers, pulling suitcases, and rolling wheelchairs. The more we can promote the fact that accessibility In a crowded sports bar the close captions on the television sets provide accessibility to all, not just the

Problems with Web accessibility:

- teachers are not Web developers
- teachers are not aware of how to make material accessible
- there is an increase of instructional material on the Internet and it is not accessible
- there are lots of teachers who have no knowledge of accessibility
- the major problem is that many teachers do not have an appropriate authoring tool (e.g. Dreamweaver)

At the University of Illinois, a project to create a Web publishing tool (Illinois Accessible Web Publishing Wizard) that makes Websites accessible for instructional material aspired to these goals:

- create accessible HTML by default
- increase knowledge of accessibility on HTML
- create prompts that provide accessibility information for the users
- automatically generate equivalent text into MS Word, MS Excel, and PowerPoint applications
- create a usable publishing tool that offers functionality to all
- allow the user to select the font size, text color, and background color create a Web publishing tool that is compatible with programs like Opera and Zoom Text that

Next Steps

- Employ best practice
- Improve features to include
- complex word tables
- slides with high number of images
- increased styling options
- Create new features that include
- organizational charts
- audio and video
- scalable Vector Graphics (SVG) output

New Directions: Where do we go from here?

concern for vendors, a discussion about policy, motivating the use of accessible distance education, and reconvened to provide a summary of their thoughts on their assigned topics. group to engage with during the round table discussions. On Saturday morning, Round Table groups reconvened to provide a summary of their thoughts on their assigned topics. Topics included issues of The last session for each day of the Institute consisted of Round Table discussions. Participants selected a technical concerns.

Vendor Issues and Solutions

- Build Relationships
- with consumers
- with information technology developers
- Identify Products and Problems
- limited resources
- isolation
- poor use of accessibility reports
- VPATs are vague or inaccurate
- third party testing is often incomplete
- identify the critical mass to determine if there is a product or if one needs to be developed
- post identified problems (via a list serve) so solutions can be identified and discussed
- participate in collaboration and testing
- Develop Consortiums
- write white papers to create awareness
- collaborate with developers
- organize beta testing
- develop design documents
- identify documentation needs
- identify developer contracts
- identify collaboration leadership
- develop design resources
- White Papers
- identify accessibility problems
- identify accessibly enhancements
- provide user scenarios
- document issues
- identify problems with multimedia resources
- Quality Assurance Process
- complete an internal review of accessible features
- complete an external review of accessible features

Key Factors that Influence Policy

- Awareness
- administration
- academic
- infrastructure
- train teachers
- develop awareness

- identify problems and obstacles develop action plan
- Policy Creation
- specificity
- stakeholders
- enforceability
- identify an evangelist/champion
- involve those who can carry the message forward
- bring all parties to the table
- write a draft policy
- identify change agents
- secure institutional buy-in
- benchmark the policy
- Policy Implementation
- sustainability
- institutional investment institutional authority
- 0
- ongoing support
- measurability
- standards based
- 0 compliance and evaluation
- tiered implementation
- consequences
- clear and consistent expectations
- 0 enforcement mechanisms
- 0 positive supports
- negative motivators
- Barriers to Effectiveness
- institutional opposition
- resource scarcity
- passive resistance
- building the business case
- institutional support
- 0 impact beyond disability
- 0 sustainability
- effective use of resources
- **Promising Practices**
- regional standards
- evaluation and support services
- cover the break points
- administrative policy
- academic policy
- infrastructure policy
- purchasing policy

Distance Education Motivating Teachers and Technical Designers to Create/Retrofit Accessible

Institutional

- establish policy to include regular monitoring of accessible distance education
- include accessibility as a component in teacher training and in orientation materials
- include technical training, pedagogy, and assistive technology access
- train information technology and technical support staff
- provide support for accessible design for faculty teaching online courses

Administrative/Legislative

- promote universal design to advance accessibility features in online teaching and learning
- require universal design in procurement
- require an accessibility impact statement
- advocate that all sources of funding (including grants) include a requirement stating that all online components developed as a result of the grant be accessible

Industry/Vendors

- promote universal design
- embed accessibility training in all training documents
- request that development tools have accessibility features be the default and not something one has to turn on

Accreditation/Licensure

- incorporate accessibility requirements as a standard for licensure and accreditation
- encourage use of universal design as a measure for tenure

Techniques for Accessibility

Accessible Formats

- include descriptions for case and positioning for diagrams, charts, art, mathematical symbols, equations, and scientific notations
- create templates and tools that are accessible
- create a list of basic tags (e.g., paragraph, list, item, link) for inexperienced users, to promote consistency and proper usage of tags
- employ sufficient resources to support development of Websites

Accessible Delivery for Hearing Impaired/Deaf

- identify students' preferred mode of delivery
- ensure compatibility of tools used by the student with the Web page accessed
- ensure compatibility of tools used by the student with each other tools
- explore real-time captioning for instructional purposes
- encourage captioning of video streams and online lectures

Accessible Delivery for Visually Impaired/Blind

- identify students' preferred mode of delivery
- ensure compatibility of tools used by the student with the Web page accessed
- ensure compatibility of tools used by the student with each other tools (e.g., A student harmoniously with each other.) that requires the use of a text reader and a font enlarger must have applications that work

Accessible Assessments

- accommodations should not be legislated or controlled by administrative decisions: accommodations must be appropriate for individual students
- accessibility features cannot compromise the integrity and security of the assessment
- tools and systems must be standardized
- Accessible Course Content

- teachers believe that they have lost control when providing distance education opportunities
- conflict between technology and content [There is a conflict among grammar, visual representation, and accessible features of some applications (e.g., For a Web-based distracting. This is one example of the conflict between technology and content.)] these lines should not have periods and visually periods on PowerPoint presentations are Periods are used to create stop points, so each line must have a period. Grammatically, PowerPoint presentation to be accessible for a text reader, it must have stop points.

Websites and Links to Accessibility Resources

For information technology accessibility, search:

(
Resource	Website
Accessible Information Technology in	http://www.woohington.odu/googgit/ghout.php
Education (Access IT)	nup.//www.wasnington.euu/accessit/about.pnp
Southeast DBTAC EduIT Portal	http://www.sedbtac.org/ed/resources/sources
	Lev3.cfm?category=19&subcat=1093
Information Technology and Technical	http://www.ittoto.org
Assistance Training Center	ntip://www.ittatc.org
EvaluTec	http://www.evalutech.sreb.org/accessible/
	accessibleresourcelist.asp
Microsoft Windows Accessibility	http://www.microsoft.com/enable/taining
Apple Accessibility	http://www.apple.com/disability

To evaluate Websites or software for accessibility, search:

TO OTHERWIP IT CONTINUE OF NOTITIES TO MOCCONTAINTY, NOTITIES) Demoka
Resource	Website
W3C Guidelines	http://www.w3c.org/WAI/evalOverview.html
Web Content Accessibility Guidelines	http://nces.ed.gov.pubs2003/secureweb/a_F.asp
IBM Web Accessibility Checklist	http://www3.ibm.com/able/guidelines/web
	/accessweb.html
IMS Guidelines for Developing accessible Learning Applications	http://ncam.wgbh.org/salt/guidelines/sec2.html
Section 508 Checklist	http://www.webaim.org/staqndard/508/checklist
(Making) Adobe PDF Files (Accessible)	http://access.adobe.com/section 508.html
Side-by-Side Comparison of Section 508 and WCAG Guidelines	http://jimthatcher.com/sidebyside.htm#Overview
HTML Commandments (for accessible	http://www.utoronto.ca/atrc/rd/html/
Web sites)	commandments.html
Section 508 Checklist: Web Accessibility in Mind	http://www.webaim.org/standards/508/checklist

To evaluate Websites for 508 compliance, search:

Resource	Website
Ask Alice TM	http://askalice.ssbtechnologies.com8080
	/adob-askalice/faq.html
A-Prompt	http://aprompt.snow.utoronto.ca
Bobby	http://bobby.watchfire.com/bobby.html/en/index.jsp
Cynthia Says Portal	http://www.cynthiasays.com
WAVE	http://www.wave.webaim.org/wave/index.jsp

For information technology accessibility laws, search:

Resource	Website
Electronic and Information Technology Accessibility Standards (Section 508 of	
the Rehabilitation Act Amendment of	III.p://www.accessooard.gov/secoos/oostalidards.iiiiii
1998)	
Section 508 Website	http://www.section508.gov/index.cfm?FuseAction
	=Content&ID=3
Federal and State Legislation Regarding	lmty leirotut/805 yew/aoo atiliyesu www/.cuty
Accessible Instructional Materials	nttp://www.asaomty.gov/wco_500/tatoman.ntm
State Laws and Policies	http://www.ataporg.org/summary.htm
508 tutorials	http://www.usability.gov/web_508/tutorial.html
State IT Accessibility Initiatives	http://www.ittatc.org/laws/state_prototype.cfm

For tools to adapt Websites for accessibility, search:

,	
Resource	Website
Designing More Usable Web Sites	http://trace.wisc.edu/world/web/index.html
National Center for	http://poom wahh org/richmodia/futoriala
Accessible Media	IIII p://IIcaiii.wgon.org/iiciiiiieuia/tutoiiais
How to (make your Web	
site accessible) and	http://www.webaim.org/howto
Resources	
SNOW Evaluation &	http://snow.utoronto.ca/access/tools.index. html?showaccess=1
Repair Tools	
Evaluation and Repair	http://www.wohoim org/moduots/org/org/org/org/
Tools	IIIp.//www.webaiii.org/products/evalandepan/
Evaluation, Repair and	
Transformation Tools for	http://www.w/2 org/WAT/ED/oxistingtools html
Web Content	IIIIp.//www.wo.org/war/EN/existingtoors.iiiiii
Accessibility	
Resource	Website
Archimedes Project	http://archimedes.stanford.edu/Ability_mag.pdf
Assistive Technology in K-12 Schools	http://www.ataccess.org/resources/atk12/default.html
Web Toolboxes for	
Educators: Software &	http://www.ed.sc.edu./caw/toolboxat.html
Assistive Technology	
Captioned Media	http://www.pfr.pg//phout.pgp/poold/?couthoost
Program	Itip://www.crv.org/about.asp:sec.id-2souttleast
Southeast DBTAC	http://www.
EduIT Portal	sedbtac.org/ed/resources/sourcesLev3.cfm?category=19&subcat=1093
Symbols for Accessible	http://main.wgbh.org/wgbh/hire/symbols.html
Media	

For resources for students, search:

Resource	Website
Just for Kids	http://www.disabilityresources.org
The Blind Readers' Page	http://blindreaders.info/index.html
Adaptive Computing Technology Center	http//iatservices.missouri.edu/adaptive
Evaluation Guideline for Software for the	Evaluation Guideline for Software for the http://clerccenter2gallaudet.edu/stg/how-to-
Deaf	evaluate.html
Just for Youth	http://www.familyvillage.wisc.edu/education

For resources for parents, search:

Resource	Website
Assistive Technology	http://www.assistivetech.net
Just for Parents	http://www.disabilityresource.org/PARENTS-OF.html#TOP
Ability Hub	http://www.abilityhub.com
Family guide to Assistive Technology	http://www.pluk.org/AT1.html#1
DisabilityInfo.Gov	http://www.disabilityinfo.gov
Alliance for Technology Access	http://www. ataccess.org/hub

Key Checkpoints for Accessibility

Paper and Pencil Assessments	Yes	No	N/A
Provide text equivalent for every non-text element (e.g. images, graphics, symbols, objects, list bullets, etc.).			
Ensure that all information conveyed with color is also available without color.			
Clearly identify changes in natural language in document text and text equivalents.			
Organize documents so they may be read without style sheets.			
Ensure that text equivalents for dynamic content are updated when dynamic content changes.			
Identify row and column headers on data tables.			
Have two or more logical levels of row or column headers for data cells.			
Use clear, simple, plain language.			
Online Assessments	Yes	No	N/A
Provide redundant text links for each active region of a server-side image map.			
Provide client-side image maps instead of server-side image maps except where the regions cannot be defined with an available geometric shape.			
Avoid screen flicker.			
Title each frame to facilitate frame identification and navigation.			
Ensure that pages are usable when scripts, applets, or other programmatic objects are turned off or not supported.			
Provide auditory description of important information of the visual track of a multimedia presentation.			

Modifying Items

targeted population and content (Gong 2007). item modification process for an assessment is to fully validate the set of guidelines or framework students being assessed and the content that is the basis of the assessment. The first step in the for this particular type of alternate assessment to gain a thorough understanding of the needs of the The most important aspect of the development of any assessment is a clear understanding of the

The tasks essential in the development of a successful modified assessment include:

- assessment. Identifying characteristics of the range of students who would be eligible for the
- population who are mastering essential knowledge and skills from those who are not. Articulating standard-by-standard the tasks that would best differentiate students in this
- with and tasks they would be most challenged by. Identifying the cognitive tasks that students in this group are most likely to be successful

a foundation. There are several questions to guide the review of the items for modification (Perie, All the items of an assessment may not have to be modified when using the general assessment as 2009). For example:

- What is the focus of the item?
- What is the vocabulary load?
- Do charts and graphs, or other visuals support or detract from understanding?
- What is the closeness of the distractors?
- What is the complexity or abstractness of ideas?
- How many steps are required for mathematics items?

allow for the same accommodations as in the general education assessment. Outlined below are specific guidelines (Hess, Fincher, McDivitt 2008). modifications, revisions, and enhancements that could be used to modify items, including content requiring students selecting the better or best answer. The items and tests should be designed to number of answer options could be reduced to three, and items should be modified to avoid a given page should be minimized with more white space or a larger font size could be used. The Some modifications should be universal for all subjects. For example, the number of questions on

Modifications, Revisions, and Enhancements

		I			
Call attention to key words	Provide work space	Number lines	Number paragraphs or lines	Add white space	Modifications
Adjust layouts	Reformat items or passages	Eliminate extraneous information	Simplify graphics	Simplify language	Revisions
Use a sidebar glossary	Use tables and charts	Use a graphic organizer	Provide scaffolding	Add helpful hints in a "Thought Balloon" with a definition or reminder	Enhancements

Content Specific Guidelines

Reading

- Reading passages can be displayed in one-column format.
- Use more familiar and underline words in distractors
- Shorten stems and/or shorten stems and make distractors complete sentences
- Simplify distractors
- underneath the segment or on a page facing the segment. equal parts, placing the related questions that pertain to the smaller portion or segment Arrange passages into conceptually meaningful parts or segment into smaller portions of
- being tested. added to fewer passages. Questions should not be revised to change the construct of what is items should not be reduced significantly per passage or a significant number of items be Passages should not be adapted that would make them below grade level. The number of

Sample Reading Item

BEFORE

In line 12 of the poem, what does the word fluttering abandon mean?

- A. to fly with uncertainty
- B. to move cautiously away from predators
- C. to fly unbounded by plan or fear*
- D. to move methodically from flower to flower

AFTER

What do the words "fluttering abandon" mean?

- A. to fly with doubt
- B. to move carefully away from harm
- C. to fly without a plan or fear*

Mathematics

- Reorganized and simplified text
- Change format
- Simplify reading load
- Underline key words
- Display numbers on all sides of figures
- should be avoided Answer choices with positive and negative numbers that use the same number
- Qualifiers in the stem and the answers choices should be consistent
- Reduce complicated art and graphics

Sample Mathematics Item BEFORE

Tom has three white marbles, four black

marbles, and six striped marbles in his marble bag. How many marbles does he

have altogether in his marble bag?

AFTER

Tom has
3 white marbles

4 black marbles

6 striped marbles

How many marbles does

Tom have altogether?

Science

- Reduce the reading load
- Underline key words or phrases
- Avoid complicated graphics
- Simplify tables and charts by removing irrelevant rows or columns
- Box formulas to make them stand out
- Simplify stems

Sample Science Item

BEFORE

In a forest food chain, plants get their energy from the Sun, and animals get their energy from plants and other animals. Which of the following shows the correct order of an energy flow in a forest?

- A. Trees are eaten by caterpillars and caterpillars are eaten by birds. *
- B. Trees are eaten by birds and birds are eaten by caterpillars.
- C. Birds are eaten by caterpillars and caterpillars are eaten by trees
- D. Birds are eaten by trees and trees are eaten by caterpillars.

AFTER

Which diagram correctly shows the <u>flow of energy</u> in a forest food chain?

- A. Trees \rightarrow Caterpillars \rightarrow Birds *
- B. Trees \rightarrow Birds \rightarrow Caterpillars
- C. Birds \rightarrow Caterpillars \rightarrow Trees

Writing Prompts

- Update checklists describing the aspects that will be grades to match the new rubric.
- Simplify rubrics
- Use holistic rubrics

access for them?" in section II of the proposal. are the 2% students and how do we design test items and assessments that provide greater Please see the publication provided with permission of Hess, Fincher, and McDivitt, "Who

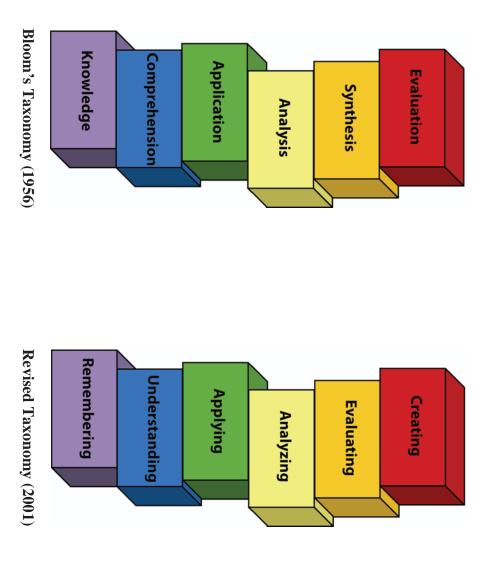
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Understanding Depth of Knowledge and Cognitive Complexity Pennsylvania Review of Items

increasingly more complex levels, to the highest level which is classified as evaluation. through the publication, The Taxonomy of Educational Objectives, The Classification of levels of complexity is Bloom's Taxonomy. Bloom's Taxonomy was first presented in 1956 cognitive complexity or the nature of thinking. One model for classifying thinking into cognitive the cognitive domain, from the simple recall or recognition of facts, at the lowest level, through Educational Goals, Handbook I: Cognitive Domain. This taxonomy identifies six levels within One of the steps in the item review process involves Pennsylvania educators' review of items for

categories or levels were revised to indicate action (verbs) rather than non-action (nouns) as During the late 1990s, the original Bloom's Taxonomy was revised (Anderson and Krathwohl, noted in the graphic below. 2001). In the 2001 version of Bloom's Taxonomy, the names of the six major cognitive process



degree or complexity of knowledge that the content curriculum standards and expectations for cognitive demand. Webb's Depth of Knowledge was created by Norman Webb from the More recently, Webb's Depth-of- Knowledge Levels have also been used in the review of items Wisconsin Center for Education Research. Webb's definition of depth of knowledge is the

standard expects. In the case of the Pennsylvania Keystone, PSSA, and CDT items, the item determine whether or not it is as demanding cognitively as what the actual content curriculum meets the criterion if the depth of knowledge of the item is in alignment with the depth of require. Therefore, when reviewing items for depth of knowledge, the item is reviewed to knowledge of the Assessment Anchor as defined by the Eligible Content.

the content before they can respond to a given item. knowledge. Rather, depth of knowledge also focuses upon how well the students need to know be found in the information that follows. However, verbs alone do not describe the depth of (extended thinking). Verb examples that represent each level in Webb's Depth of Knowledge can Webb's Depth of Knowledge includes four levels, from the lowest (basic recall) to the highest

during the review of the items. The comparison serves as a "bridge" for teachers to understand Bloom's Taxonomy and Webb's Depth of Knowledge is provided to Pennsylvania educators Webb's Depth of Knowledge as compared to Bloom's Taxonomy. Because Bloom's Taxonomy (1956) is very familiar to many teachers, information comparing

Depth of Knowledge Guidelines for Review of Items

II, and Geometry. Included are examples of verbs (i.e., the action). Using this information as aligns with the cognitive level or depth of knowledge of the Assessment Anchor as defined by knowledge of the Assessment Anchor as defined by the Eligible Content. item and to verify that the depth of knowledge of each item is in alignment with the depth of well as the charts, Pennsylvania educators are asked to determine the depth of knowledge of each knowledge levels. The charts at the end of the section also provide a comparison between the Eligible Content. The information below provides a definition of the four depth-ofthe item measures what it is intended to measure, but also to determine whether or not the item Committees of Pennsylvania educators review each item, not only to determine whether or not Bloom's Taxonomy and Webb's Depth of Knowledge for mathematics and Algebra I, Algebra

Definitions of Webb's Depth of Knowledge

levels, depending on what is to be described and explained. this lowest level. Other key words that signify Level 1 include "identify," "recall," "recognize," mathematics, a one-step, well-defined, and straight algorithmic procedure should be included at procedure, as well as performing a simple algorithm or applying a formula. That is, in "use," and "measure." Verbs such as "describe" and "explain" could be classified at different Level 1 (Recall) requires the recall of information such as a fact, definition, term, or a simple

only to number skills, but may involve visualization skills and probability skills. Other Level 2 object of the action. For example, interpreting information from a simple graph, or reading of objects or phenomena and then grouping or ordering the objects. Some action verbs, such as of steps. Keywords that generally distinguish a Level 2 item include "classify," "organize, in tables, graphs, and charts. collecting data; classifying, organizing, and comparing data; and organizing and displaying data experimental procedures; carrying out experimental procedures; making observations and activities include noticing or describing non-trivial patterns; explaining the purpose and use of information from the graph can be aggregated is at Level 3. Level 2 activities are not limited that requires some decisions on what features of the graph need to be considered and how information from the graph, are also at Level 2. Interpreting information from a complex graph "explain," "describe," or "interpret," could be classified at different levels depending on the imply more than one step. For example, to compare data requires first identifying characteristics problem or activity, whereas Level 1 requires students to demonstrate a rote response, perform a response. A Level 2 item requires students to make some decisions as to how to approach the "estimate," "make observations," "collect and display data," and "compare data." These actions well-known algorithm, follow a set procedure (like a recipe), or perform a clearly defined series Level 2 (Skill/Concept) requires the engagement of some mental processing beyond a habitual

thinking than the previous two levels. In most instances, requiring students to explain their answer and requires students to justify the response they give would most likely be at Level 3. requires more demanding reasoning. An activity, however, that has more than one possible the fact that there are multiple answers, a possibility for both Levels 1 and 2, but because the task The cognitive demands at Level 3 are complex and abstract. The complexity does not result from thinking is at Level 3. Activities that require students to make conjectures are also at this level. Level 3 (Strategic Thinking) requires reasoning, planning, using evidence, and a higher level of

Other Level 3 activities include drawing conclusions from observations; citing evidence and developing a logical argument for concepts; explaining phenomena in terms of concepts; and deciding which concepts to apply in order to solve a complex problem.

experiments and projects; developing and proving conjectures; making connections between a demands of the task should be high and the work should be very complex. Students should be finding and related concepts and phenomena; combining and synthesizing ideas into new solved, in order to be at this highest level. Level 4 activities include designing and conducting required to make several connections—relate ideas within the content area or among content into consideration a number of variables, this would be a Level 4. At Level 4, the cognitive classified as a Level 2. However, if the student is to conduct a river study that requires taking temperature from a river each day for a month and then construct a graph, this would be understanding and higher-order thinking. For example, if a student has to take the water factor if the required work is only repetitive and does not require applying significant conceptual most likely over an extended period of time. The extended time period is not a distinguishing concepts; and critiquing experimental designs. Level 4 (Extended Thinking) requires complex reasoning, planning, developing, and thinking and have to select one approach among many alternatives on how the situation should be

investigation, and application, often over an extended period of time (e.g., performance-based Level 4; however, to design an item in this format is difficult, as it would require research, tasks; portfolios; research studies/projects). Note: Multiple-choice and constructed-response items can be written at a depth-of-knowledge

(Webb, N. 1997, 1999, 2002, 2005, 2006)

Bloom's Taxonomy—Mathematics

	•	
Categories (1956)	Definition	Examples of Action Words*
Knowledge	Student remembers, or recalls	define; identify; name; select; state; order;
	appropriate previously learned information.	(involves a one-step problem)
Comprehension	Student translates, comprehends, or	convert; estimate; explain; express; factor;
	interprets information based on prior learning.	generalize; give example; identify; indicate; locate; picture; (involves two or
		more steps)
Application	Student selects, transfers, and uses data	apply; choose; compute; employ; interpret;
	and principles to complete a task or	graph; modify; operate; plot; practice;
	problem with minimum directions.	solve; use; (involves three or more steps)
Analysis	Student distinguishes, classifies, and	compare; contrast; correlate; differentiate;
	relates assumptions, hypotheses,	discriminate; examine; infer; maximize;
	evidence, or structure of a statement or	minimize; prioritize; subdivide; test
	question.	
Synthesis	Student originates, integrates, and	arrange; collect; construct; design;
	combines ideas into a product, plan, or	develop; formulate; organize; set up;
	proposal that is new to him or her.	prepare; plan; propose; create experiment
		and record data
Evaluation	Student appraises, assesses, or critiques	appraise; assess; defend estimate; evaluate;
	on a basis of specific standards and	judge; predict; rate; validate; verify
	criteria.	

Webb's Depth of Knowledge—Mathematics

Categories	Definition	Example of Action Words*
Recall	Student recalls facts, information,	define; identify; name; select; state; order;
	procedures, or definitions.	one step
Basic Application of	Student uses information concentual	apply; choose; compute; employ; interpret;
Skill/Concept	browledge and procedures	graph; modify; operate; plot; practice;
	MIOWICESC, and procedures.	solve; use; two or more steps
Strategic Thinking	Student uses reasoning and develops a	compare; contrast; correlate; differentiate;
	plan or sequence of steps; process has	discriminate; examine; infer; maximize;
	some complexity.	minimize; prioritize; subdivide; test
Extended Thinking	Student conducts an investigation, needs	arrange; collect; construct; design; develop;
	time to think and process multiple	formulate; organize; set up; prepare; plan;
	conditions of the problem or task. (The	propose; create experiment and record data
	item/task generally requires several days	
	or weeks to complete.)	

^{*}Some action words (verbs) can be classified at different depth-of-knowledge levels depending on the context of the item and the complexity of the action.

Science Depth of Knowledge

This meaning of knowledge is consistent with the National Science Education Standards Note: "Knowledge" can refer both to content knowledge and knowledge of scientific processes. (NSES), which terms "Science as Inquiry" as its first Content Standard.

defined by the Eligible Content. The information below provides a definition of the four depthas defined by the Eligible Content. asked to determine the depth of knowledge of each item and to verify that the depth of verbs (i.e., the action). Using this information as well as the charts, Pennsylvania educators are of-knowledge levels. The charts at the end of the section also provide a comparison between not the item aligns with the cognitive level or depth of knowledge of the Assessment Anchor as Committees of Pennsylvania educators review each Keystone Exam item, not only to determine knowledge of each item is in alignment with the depth of knowledge of the Assessment Anchor Bloom's Taxonomy and Webb's Depth of Knowledge for biology. Included are examples of whether or not the item measures what it is intended to measure, but also to determine whether or

Definitions of Webb's Depth of Knowledge

considered Level 1. Verbs such as "describe" and "explain" could be classified at different depth-of-knowledge levels, depending on the complexity of what is to be described and level. Simple word problems that can be directly translated into and solved by a formula are well defined and typically involves only one step. Verbs such as "identify," "recall," "recognize," "use," "calculate," and "measure" generally represent cognitive work at the recall procedure (like a recipe), or perform a clearly defined series of steps. A "simple" procedure is requires students to demonstrate a rote response, use a well-known formula, follow a set procedure, as well as performance of a simple science process or procedure. Level 1 (Recall) requires the recall of information, such as a fact, definition, term, or a simple Level 1 only

an item automatically provides the answer to it, then the item is at Level 1. If the knowledge not need to be "figured out" or "solved." In other words, if the knowledge necessary to answer 2. Some examples that represent but do not constitute all Level 1 performance are as follows: needed to answer the item is not automatically provided in the stem, the item is at least at Level A student answering a Level 1 item either knows the answer or does not: that is, the item does

- Recall or recognize a fact, term, or property.
- Represent in words or diagrams a scientific concept or relationship
- Provide or recognize a standard scientific representation for simple phenomenon.
- Perform a routine procedure, such as measuring length.

objects or phenomena and then grouping or ordering the objects. Level 2 activities include than one step. For example, to compare data requires first identifying characteristics of the require students to make some decisions as to how to approach the question or problem. recalling. The content knowledge or process involved is more complex than in Level 1. Items "make observations," "collect and display data," and "compare data." These actions imply more Keywords that generally distinguish a Level 2 item include "classify," "organize," "estimate," Level 2 (Skills and Concepts) requires the engagement of some mental processing beyond

depending on the complexity of the action. For example, interpreting information from a simple that need to be considered and how information from the graph can be aggregated, is at Level 3 interpretation from a complex graph, such as making decisions regarding features of the graph graph, which requires reading information from the graph, is a Level 2. An item that requires "explain," "describe," or "interpret," could be classified at different depth-of-knowledge levels, organizing and displaying data in tables, graphs, and charts. Some action verbs, such as making observations and collecting data; classifying, organizing, and comparing data; and Some examples that represent but do not constitute all of Level 2 performance are as follows:

- Specify and explain the relationship between facts, terms, properties, or variables
- Describe and explain examples and non-examples of science concepts.
- Select a procedure according to specified criteria and perform it
- Formulate a routine problem, given data and conditions.
- Organize, represent, and interpret data.

developing a logical argument for concepts; explaining phenomena in terms of concepts; and a Level 3. Experimental designs in Level 3 typically involve more than one dependent variable one possible answer and requires students to justify the response they give would most likely be reasoning. In most instances, requiring students to explain their thinking is at Level 3; requiring a thinking than the previous two levels. The cognitive demands at Level 3 are complex and constitute all Level 3 performance are as follows: using concepts to solve non-routine problems. Some examples that represent but do not Other Level 3 activities include drawing conclusions from observations; citing evidence and very simple explanation or a word or two should be at Level 2. An activity that has more than a possibility for both Levels 1 and 2, but because the multi-step task requires more demanding abstract. The complexity does not result only from the fact that there could be multiple answers Level 3 (Strategic Thinking) requires reasoning, planning, using evidence, and a higher level of

- Identify research questions and design investigations for a scientific problem.
- Solve non-routine problems.
- Develop a scientific model for a complex situation.
- Form conclusions from experimental data.

expect students to perform extended thinking. "Develop generalizations of the results obtained assessment activities requiring significant thought will be Level 4. objective that is a Level 4. Many, but not all, performance assessments and open-ended and the strategies used and apply them to new problem situations," is an example of a grade 8 classified as Level 4. However, standards, goals, and objectives can be stated in such a way as to Many on-demand assessment instruments will not include any assessment activities that could be areas—and have to select or devise one approach among many alternatives to solve the problem. required to make several connections—relate ideas within the content area or among content Level 4 (Extended Thinking) requires high cognitive demands and complexity. Students are

significant conceptual understanding and higher-order thinking. For example, if a student is is not a distinguishing factor if the required work is only repetitive and does not require applying or for carrying out the multiple steps of an assessment item. However, the extended time period require an extended period of time either for the science investigation required by an objective, Level 4 involves complex reasoning, experimental design and planning, and probably will

examples that represent but do not constitute all Level 4 performance are as follows: asked to take the water temperature from a river each day for a month and then construct a graph, this would be classified as a Level 2 activity. However, if the student conducts a river study that requires taking into consideration a number of variables, this would be a Level 4. Some

- the fundamental relationship between several controlled variables. Based on data provided from a complex experiment that is novel to the student, deduct
- experiment, to analyzing its data and forming conclusions. Conduct an investigation, from specifying a problem to designing and carrying out an

investigation, and application, often over an extended period of time (e.g. performance-based Note: tasks, portfolios, research studies/projects). Level 4; however, to design an item in this format is difficult, as it would require research, Multiple-choice and constructed-response items can be written at a depth-of-knowledge

(Webb, N. 1997, 1999, 2002, 2005, 2006)

Bloom's Taxonomy—Science

Categories (1956)	Definition	Examples of Action Words*
Knowledge	Student remembers, or recalls	identify; recall; observe; recognize; use;
	appropriate previously learned information.	calculate; measure; order
Comprehension	Student translates, comprehends, or	explain; interpret; describe; classify; identify;
	interprets information based on prior	recognize; predict
	learning.	
Application	Student selects, transfers, and uses data	apply; classify; experiment; interpret; use;
	and principles to complete a task or	order; calculate
	problem with minimum directions.	
Analysis	Student distinguishes, classifies, and	analyze; order; explain; classify; arrange;
	relates assumptions, hypotheses,	compare; contrast; infer; calculate; categorize;
	evidence, or structure of a statement or	examine; experiment; question; test
	question.	
Synthesis	Student originates, integrates, and	combine; arrange; rearrange; modify; invent;
	combines ideas into a product, plan, or	design; construct; organize; predict; infer;
	proposal that is new to him or her.	conclude; create; experiment and record data
Evaluation	Student appraises, assesses, or critiques	evaluate; measure; explain; compare;
	on a basis of specific standards and	summarize; predict; test decide; rate; conclude
	criteria.	

Webb's Depth of Knowledge—Science

Categories	Definition	Examples of Action Words*
Recall	Student recalls facts, information,	identify; recall; observe; recognize; use;
	procedures, or definitions.	calculate; measure; order
Basic Application of	Student uses information, conceptual	explain; interpret; describe; classify; identify;
Skill/Concept	knowledge, and procedures.	order; recognize; predict; apply; use; calculate;
		organize; estimate; observe; collect; and display
		data
Strategic Thinking	Student uses reasoning and develops a	analyze; order; explain; classify; arrange;
	plan or sequence of steps; process has	compare; contrast; infer; interpret; calculate;
	some complexity.	categorize; examine; experiment; question;
		predict; evaluate; test
Extended Thinking	Student conducts an investigation, needs	combine; arrange; rearrange; propose; evaluate;
	time to think and process multiple	modify; invent; design; construct; organize;
	conditions of the problem or task. (The	predict; infer; conclude; evaluate; create;
	item/task generally requires several days	experiment and record data
	or weeks to complete.)	

^{*}Some action words (verbs) can be classified at different depth-of-knowledge levels depending on the context of the item and the complexity of the action.

Reading (Literature and Non-Fiction) Depth of Knowledge

Note: The levels are based on Valencia and Wixson (2000, pp. 909–935).

defined by the Eligible Content. The information below provides a definition of the four depthas defined by the Eligible Content. knowledge of each item is in alignment with the depth of knowledge of the Assessment Anchor asked to determine the depth of knowledge of each item and to verify that the depth of of-knowledge levels. The charts at the end of the section also provide a comparison between not the item aligns with the cognitive level or depth of knowledge of the Assessment Anchor as whether or not the item measures what it is intended to measure, but also to determine whether or verbs (i.e., the action). Using this information as well as the charts, Pennsylvania educators are Bloom's Taxonomy and Webb's Depth of Knowledge for literature. Included are examples of Committees of Pennsylvania educators review each Keystone Exam item, not only to determine

Definitions of Webb's Depth of Knowledge

understanding of a single word or phrase. Some examples that represent but do not constitute all included. Items require only a shallow understanding of the text presented and often consist of reading that does not include analysis of the text, as well as basic comprehension of a text, is Level 1 performance are as follows: verbatim recall from text, slight paraphrasing of specific details from the text, or simple Level 1 requires students to receive or recite facts or to use simple skills or abilities. Oral

- Support ideas by reference to verbatim or only slightly paraphrased details from the text.
- Use a dictionary to find the meanings of words.
- Recognize figurative language in a reading passage.

examples that represent but do not constitute all Level 2 performance are as follows: text, possibly through the item's paraphrasing of both the question and the answer. Some skills and concepts that are covered in Level 1. However, items require closer understanding of fact or opinion. Literal main ideas are stressed. A Level 2 item may require students to apply summarize, interpret, infer, classify, organize, collect, display, compare, and determine whether a complex way. Content curriculum standards and items at this level may include words such as response; it requires both comprehension and subsequent processing of text or portions of text. Inter-sentence analysis of inference is required. Some important concepts are covered, but not in Level 2 requires the engagement of some mental processing beyond recalling or reproducing a

- that could otherwise have multiple meanings. Use context cues to identify the meaning of unfamiliar words, phrases, and expressions
- Predict a logical outcome based on information in a selection
- Identify and summarize the major events in a narrative.

they are still required to show understanding of the ideas in the text. Students may be encouraged Anchors as defined by the Eligible Content) at Level 3 involve reasoning and planning. Students to explain, generalize, or connect ideas. Content curriculum standards and items (Assessment Level 3 requires deeper knowledge. Students are encouraged to go beyond the text; however,

all Level 3 performance are as follows: more superficial connections between texts. Some examples that represent but do not constitute across an entire passage, or students' application of prior knowledge. Items may also involve must be able to support their thinking. Items may involve abstract theme identification, inference

- Explain or recognize how the author's purpose affects the interpretation of a selection.
- Summarize information from multiple sources to address a specific topic.
- Analyze and describe the characteristics of various types of literature.

to apply this information to a new task. They may also be asked to develop hypotheses and repetitive and does not require the application of significant conceptual understanding and completing it. The extended time period is not a distinguishing factor if the required work is only item at this level will probably require an extended activity, with extended time provided for not constitute all Level 4 performance are as follows: perform complex analyses of the connections among texts. Some examples that represent but do higher-order thinking. Students take information from at least one passage of a text and are asked Level 4 requires higher-order thinking and deep knowledge. The content curriculum standard or

- Analyze and synthesize information from more than one source.
- Examine and explain alternative perspectives across a variety of sources
- Describe and illustrate how common themes are found across texts from different

tasks, portfolios, research studies/projects). investigation, and application, often over an extended period of time (e.g. performance-based Level 4; however, to design an item in this format is difficult, as it would require research, Note: Multiple-choice and constructed-response items can be written at a depth-of-knowledge

(Webb, N. 2005; Valencia and Wixson, 2000)

Bloom's Taxonomy—Reading

support	standards and criteria.	
evaluate; explain; justify; predict; prove;	critiques on a basis of specific	
assess; conclude; convince; defend;	Student appraises, assesses, or	Evaluation
	or proposal that is new to him or her.	
generalize; organize	combines ideas into a product, plan,	
compose; create; develop; formulate;	Student originates, integrates, and	Synthesis
	or question.	
	evidence, or structure of a statement	
discriminate; distinguish; explain; infer	relates assumptions, hypotheses,	
analyze; characterize; compare; contrast;	Student distinguishes, classifies, and	Analysis
	or problem with minimum directions.	
interpret; inform; select; show; use	data and principles to complete a task	
apply; choose; demonstrate; determine;	Student selects, transfers, and uses	Application
restate; summarize	learning.	
indicate; interpret; locate; recognize;	interprets information based on prior	
describe; distinguish; explain; identify;	Student translates, comprehends, or	Comprehension
	information.	
select; tell	appropriate previously learned	
define; identify; name; recall; recognize;	Student remembers, or recalls	Knowledge
Examples of Action Words*	Definition	Categories (1956)

Webb's Depth of Knowledge—Reading

Categories	Definition	Examples of Action Words*
Recall	Student recalls facts, information,	define; identify; locate; name; recall;
	procedures, or definitions.	recognize; sequence; tell
Basic Application of	Student uses information, conceptual	apply; compare; comprehend; identify;
Skill/Concept	knowledge, and procedures.	describe; determine; infer; interpret;
	MIOWICESC, and procedures.	predict; summarize; use
Strategic Thinking	Student uses reasoning and develops a	analyze; cite evidence; compare; contrast;
	plan or sequence of steps; process has	draw conclusions; explain; generalize;
	some complexity.	infer; interpret; evaluate; recognize;
		summarize; support
Extended Thinking	Student conducts an investigation,	describe and illustrate; evaluate; examine
	needs time to think and process	and explain; analyze; synthesize
	multiple conditions of the problem or	
	task. (The item/task generally requires	
	several days or weeks to complete.)	

^{*}Some action words (verbs) can be classified at different depth-of-knowledge levels depending on the context of the item and the complexity of the action.

English Composition

The levels are based on Valencia and Wixson (2000, pp. 909–935).

and/or prompt is in alignment with the depth of knowledge of the Assessment Anchor as defined knowledge of each item and/or prompt and to verify that the depth of knowledge of each item end of the section also provide a comparison between Bloom's Taxonomy and Webb's Depth of information below provides a definition of the four depth-of-knowledge levels. The charts at the level or depth of knowledge of the Assessment Anchor as defined by the Eligible Content. The measure, but also to determine whether or not the item and/or prompt aligns with the cognitive only to determine whether or not the item and/or prompt measures what it is intended to by the Eligible Content. information as well as the charts, Pennsylvania educators are asked to determine the depth of Committees of Pennsylvania educators review each Keystone Exam item and/or prompt, not Knowledge for English composition. Included are examples of verbs (i.e., the action). Using this

Definitions of Webb's Depth of Knowledge

do not constitute all of Level 1 performance are as follows: appropriate grammar, punctuation, capitalization, and spelling. Some examples that represent but identify Standard English conventions in writing. This includes using and/or recognizing simple sentences. Students are expected to write using Standard English conventions and to a simple spelling or vocabulary assessment or are asked to write simple sentences or to identify listing ideas or words as in a brainstorming activity prior to written composition, are engaged in include complex synthesis or analysis but basic ideas. For example, the students are engaged in Level 1 requires the student to write or recall simple facts. This writing or recalling does not

- Use and/or identify correct punctuation marks and capitalization in writing and
- Identify Standard English grammatical structures and identify resources for
- Write and/or identify simple sentences

site. Some examples that represent but do not constitute all Level 2 performance are as follows: understanding and appropriate use of such reference materials as a dictionary, thesaurus, or web or simple summaries. Text may be limited to one paragraph. Students demonstrate a basic simple organizational structure. For example, students may be engaged in note-taking, outlining for a limited number of purposes and audiences. Students are beginning to connect ideas using a Level 2 requires some mental processing. At this level students are engaged in first draft writing

- Construct compound sentences.
- Use simple organizational strategies to structure written work
- Write summaries.
- Edit final drafts of compositions for mechanics and conventions

developing compositions that include multiple paragraphs. These compositions may include Level 3 requires higher level of thinking or mental processing. Students are engaged in

the quality of the composition. Some examples that represent but do not constitute all Level 3 informational composition. At this stage students are engaged in editing and revising to improve addressing chronological order in a narrative or including supporting facts and details in an compositional elements. The use of appropriate compositional elements includes, for example, awareness of their audience and purpose through focus, organization, and the use of appropriate complex sentence structure and may demonstrate some synthesis and analysis. Students show performance are as follows:

- Support ideas with details and examples.
- Use complex or varied sentence structures in written work.
- Use voice appropriate to the purpose and audience.
- Edit writing to produce a logical progression of ideas.
- Revise to improve the quality of writing.

constitute all Level 4 performance are as follows: create compositions demonstrating a distinct voice that stimulates the reader to consider new informational papers include hypotheses and supporting evidence. Students are expected to themes. There is evidence of a deep awareness of purpose and audience. For example perspectives on the addressed ideas and themes. Some examples that represents but do not by a multi-paragraph composition that demonstrates synthesis and analysis of complex ideas or Level 4 requires the highest level of thinking or mental processing. Level 4 may be represented

- Write an analysis of two selections, identifying the common theme and generating a purpose that is appropriate for both.
- Demonstrate evidence of a deep awareness of purpose and audience

tasks, portfolios, research papers/projects). application, often over an extended period of time (e.g. writing prompts, performance-based a multiple-choice item in this format is difficult, as it would require research, investigation, and Note: Multiple-choice items can be written at a depth-of-knowledge Level 4; however, to design

(Webb, N. 2005; Valencia and Wixson, 2000)

Bloom's Taxonomy—English Composition

Categories (1956)	Definition	Examples of Action Words*
Knowledge	Student remembers, or recalls	define; identify; list; sequence; tell
	appropriate previously learned	
	information.	
Comprehension	Student translates, comprehends, or	describe; discuss; explain; summarize
	interprets information based on prior	
	learning.	
Application	Student selects, transfers, and uses data	apply; construct; choose; complete;
	and principles to complete a task or	determine; edit; provide; relate; use;
	problem with minimum directions.	write
Analysis	Student distinguishes, classifies, and	analyze; compare; contrast; characterize;
	relates assumptions, hypotheses,	distinguish; examine; explain; interpret
	evidence, or structure of a statement or	outline; support
	question.	
Synthesis	Student originates, integrates, and	communicate; compose; create; develop;
	combines ideas into a product, plan, or	express; plan; revise; rewrite
	proposal that is new to him or her.	
Evaluating	Student appraises, assesses, or critiques	argue; convince; conclude; criticize;
	on a basis of specific standards and	defend; evaluate; justify
	criteria.	

Webb's Depth of Knowledge--English Composition

Categories	Definition	Examples of Action Words*
Recall	Student recalls facts, information,	define; identify; list; sequence; tell; use;
	procedures, or definitions.	write
Basic Application of	Student uses information, conceptual	apply; choose; complete; construct;
Skill/Concept	knowledge, and procedures.	describe; discuss; edit; explain; explore;
		sequence; state; summarize; use; write
Strategic Thinking	Student uses reasoning and develops a	acknowledge; analyze; characterize;
	plan or sequence of steps; process has	compare; compose; consider; contrast;
	some complexity.	convince; defend; demonstrate;
		determine; develop; display;
		distinguish; edit; elaborate; evaluate;
		examine; justify; organize; present;
		revise; rewrite; support; synthesize
Extended Thinking	Student conducts an investigation,	analyze; compose; create; design;
	needs time to think and process multiple	hypothesize; support; synthesize
	conditions of the problem or task. (The	
	item/task generally requires several	
	days or weeks to complete.)	

^{*}Some action words (verbs) can be classified at different depth-of-knowledge levels depending on the context of the item and the complexity of the action.

Civics and Government

published by CCSSO, December 2002 The levels are based on Webb, Technical Issues in Large-Scale Assessment, report

charts at the end of the section also provide a comparison between Bloom's Taxonomy and cognitive level or depth of knowledge of the Assessment Anchor as defined by the Eligible determine the depth of knowledge of each item and/or prompt and to verify that the depth of action). Using this information as well as the charts, Pennsylvania educators are asked to intended to measure, but also to determine whether or not the item and/or prompt aligns with the prompt, not only to determine whether or not the item and/or prompt measures what it is Assessment Anchor as defined by the Eligible Content. knowledge of each item and/or prompt is in alignment with the depth of knowledge of the Webb's Depth of Knowledge for English composition. Included are examples of verbs (i.e., the Content. The information below provides a definition of the four depth-of-knowledge levels. The Committees of Pennsylvania educators will be asked to review each Keystone Exam item and/or

described and explained. At Level 1 "describe or explain" would require a student to recall, information contained in maps, charts, tables, graphs or drawings are generally Level 1. recite or reproduce information. Items that require students to recognize or identify specific student to recall who, what, when and where. Items that require students to "describe" and generally requires students to identify, list, or define. theories or to recognize or identify specific information contained in graphics. This level "explain" could be classified at Level 1 or 2 depending on the complexity of what is to be Level 1 (Recall) requires the student to recall facts, terms, concepts, trends, generalizations and The items at this level usually ask the

not need to be "figured out" or "solved." A student answering a Level 1 item either knows the answer or does not: that is, the answer does

and problems, patterns, reasons, cause and effect, significance or impact, relationships, points of view or processes. A Level 2 "describe or explain" would require students to go beyond a description or explanation of recalled information to describe or explain a result or "how" or an example; classify or sort items into meaningful categories; describe, interpret or explain issues compare people, places, events and concepts; convert information from one form to another; give beyond recalling or reproducing a response. This level generally requires students to contrast or Level 2 (Skills and Concepts) requires a student to engage in some form of mental processing

concepts to solve problems; analyzing similarities and differences in issues and problems; include drawing conclusions; citing evidence; applying concepts to new situations; using demands at Level 3 are more complex and more abstract than Levels 1 or 2. and why" to justifying the "how and why" through application and evidence. The cognitive thinking than the previous two levels. Students would go beyond explaining or describing "how making connections across time and place to explain a concept or big idea. proposing and evaluating solutions to problems; recognizing and explaining misconceptions or Level 3 (Strategic Thinking) requires a student to reason, using evidence, and a higher level of Items at Level 3

evidence through a task or product that the cognitive demands have been met. A Level 4 this level the cognitive demands should be high, and the work should be very complex. Students does not require applying significant conceptual understanding and higher-order thinking. as Level 4 when the task or response requires evidence that the cognitive requirements have been demand assessments that do include tasks, products, or extended responses would be classified goals, and objectives can be stated so as to expect students to perform thinking at this level. Onargument, or plan and develop solutions to problems. Many on-demand assessment instruments performance students will make predictions with evidence as support, develop a logical illustrate how common themes and concepts are found across time and place. In some Level 4 examine and explain alternative perspectives across a variety of sources and/or describe and content areas in order to be at this highest level. The distinguishing factor for Level 4 would be should be required to connect and relate ideas and concepts within the content area or among planning, investigating, or developing that will most likely require an extended period of time. will not include assessment activities that could be classified as Level 4. However, standards, performance will require students to analyze and synthesize information from multiple sources The extended time period is not a distinguishing factor if the required work is only repetitive and Level 4 (Extended Thinking) requires the student to use complex reasoning with the addition of

Note: performance-based tasks, portfolios, research papers/projects). investigation, and application, often over an extended period of time (e.g. writing prompts, design a multiple-choice item in this format is difficult, as it would require research, Multiple-choice items can be written at a depth-of-knowledge Level 4; however, to

(Webb, N. 2002)

Bloom's Taxonomy—Civics and Government

Categories (1956)	Definition	Examples of Action Words*
Knowledge	Student remembers, or recalls appropriate	define; identify; list; sequence; tell
	previously learned information.	
Comprehension	Student translates, comprehends, or interprets	describe; discuss; explain;
	information based on prior learning.	summarize
Application	Student selects, transfers, and uses data and	apply; construct; choose; complete;
	principles to complete a task or problem with	determine; edit; provide; relate; use;
	minimum directions.	write
Analysis	Student distinguishes, classifies, and relates	analyze; compare; contrast;
	assumptions, hypotheses, evidence, or structure	characterize; distinguish; examine;
	of a statement or question.	explain; interpret outline; support
Synthesis	Student originates, integrates, and combines	communicate; compose; create;
	ideas into a product, plan, or proposal that is new	develop; express; plan; revise;
	to him or her.	rewrite
Evaluating	Student appraises, assesses, or critiques on a	argue; convince; conclude; criticize;
	basis of specific standards and criteria.	defend; evaluate; justify

Webb's Depth of Knowledge—Civics and Government (Based on Webb, Karin Hess, Center for Assessment/NCIEA, 2005) Fyamples

Categories	Definition	Examples of Action Words*
Recall	Student recalls facts, terms, concepts, trends, generalizations, events, or documents; identifies	recall, label, define; identify; list; sequence; tell; use
	key figures in a particular context; describes or explains who, what where, and when: identifies	
	specific information contained in maps, charts,	
Basic	Student describes cause-effect of events;	describe, explain, apply; categorize,
Application of	describes/explains how, why, points of view,	choose; organize, illustrate, complete;
Skill/Concept	processes, significance, or impact; identifies	construct; discuss; explore; state;
	patterns in events; categorizes events or figures	summarize; use
	in history into groups; summarizes events,	
	problem/solution, conflicts; distinguishes	
	between fact an opinion; organizes information	
	to show relationships; compares and contrasts	
	people, events, places, and concepts; provides	
	examples to illustrate an idea/concept; uses	
	procedures	
Strategic	Student uses reasoning to explain, generalize, or	generalize; connect; analyze; draw
Thinking	connect ideas; uses supporting evidence; makes	conclusions; characterize; compare;
	and supports inferences about implied causes and	compose; consider; contrast; convince;
	effects; draws conclusions or forms alternative	defend; demonstrate; determine;
	conclusions; analyzes how changes have affected	develop; display; distinguish; elaborate;
	people or places; uses concepts to solve	evaluate; examine; justify; synthesize
	problems, analyzes similarities and differences in issues or problems: proposes and evaluates	
	solutions; recognizes and explains	
	misconceptions related to concepts; develops a	
	plan or sequence of steps.	
Extended	Student analyzes and explains multiple	analyze; compose; create; design;
Thinking	perspectives or issues within or across time	hypothesize; support; synthesize
	periods, events, or cultures; gathers, analyzes,	
	multiple sources: makes predictions with	
	evidence as support; plans and develops	
	solutions to a problems; researches, defines, and	
	describes the situation/problem; provides	
	alternative solutions; conducts an investigation	
	over time. (The item/task generally requires	
	several days or weeks to complete.)	-

on the context of the item and the complexity of the action. *Some action words (verbs) can be classified at different depth-of-knowledge levels depending

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http://www.wcer.wisc.edu/WAT/index.aspx Webb Alignment Tool (WAT) Training Manual retrieved from

	Opling Form Chacklist			
Client:				
Cont	Content/Grade Level or Course:			
Project	Project Code:	PL	C	#
	Form Set Properties			
_	Named according to Form Set naming conventions	•		+
2	Marked as Test Booklet for Online		+	•
3	Material ID Required; (for scored forms only)			+
4	Help Files (see Help Files list)	•		+
	Form Properties	_		
5	Forms named according to Client form naming conventions	•		+
6	Material ID correctly entered	•		+
7	Form Type set to "Live" or "OTT"			+
8	Spiral/Breach checked (where needed)	•		+
9	Visual Indicator selected	•		+
10	Audio/Visual checked (where needed)	•		+
	Session Properties		-	
ر م	Number of Items match number of items in session Shows Sticky Notes for		*	•
ა u	Shows Rulers set			+
14	Protractors set		•	+
15	Calculators set		•	+
16	Session named according to Client session naming conventions	•	•	+
17	Item sequencing (continue from last or restart numbering for each session)	•	•	+
	Form Details			
19	Glossary of Terms component and parameters entered and selected Formula Sheets component and parameters entered and selected (check for multiple sessions)		• •	+ +
20	Periodic Table component entered (check for multiple sessions)		•	+
21	Sections within a Session (see Section list)	•	•	+
22	Scramble plan followed (non-content clients only)		+	
23	Section component entered	_	•	+
24	Section Type set			+
25	Can student re-enter? (Yes/No)		•	+
26	Section numbering set correctly		•	+
27	Directions file selected	•		+
28	Survey present (Yes/No)	•		+
29	Correct survey questions entered			+
30		-		+
31	Use Function set as FT		-	+
			-	

PA Online Form Checklist

rect Content directions entered ections set up as scrolling or page-turning **Pree circles" page present **Scrolling Passage/Scenario** **Iking title entered for each passage/scenario** **Present scrolling present style agraph/line numbers entered according to client style agraph/line numbers entered according to client style agraph/line numbers entered correctly **Pred passage instructions entered passages instructions entered by item and client enterement tools available as required by item and client enterement used as required by client enterement enterement used as required by client enterement en	+		Drag and Drop: -Directions are precise -Drag entities set for single or multiple use according to item need -Drop regions set to snap or for absolute placement -Drag entities fit the drop area	62
assage/Scenario assage/Scenario ant style ding to client style to client style arrectly al Passage/Scenario gle-page passage gle-page passage ltems sed by item or client ad by client by response type t specifications ccording to client by client			Help file is available for each TE	61
turning assage/Scenario assage/Scenario arrectly arrectly ad passage/Scenario gle-page passage gle-page passage ltems sed by item or client ad by client by response type t specifications ccording to client by client			TE response areas aligned (left-justified or centered) according client style	60
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ning ning ning sage/Scenario cenario style gto client style client style client style client style senario assage/Scenario cenario t response type and client response type and client response type and client client client client client client client client client			Help feature present for every contextual help	58
ning ning sage/Scenario cenario style g to client style client style client style setly actly assage/Scenario cenario by item or client and client and client by client cresponse type and client response type and client client client client			EBSR maximum selections set for all parts	57
ning sage/Scenario cenario style style gto client style client style client style client style setly assage/Scenario cenario by item or client and client and client by client by client cersponse type and client response type and client response type and client response type and client response type and client			Scroll bar deactivated where required by client	56
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ning sage/Scenario cenario style gt o client style client style cenario assage/Scenario cenario by item or client and client and client by client			Equation Builder available as required by response type	52
ning ning sage/Scenario cenario style gt o client style client style client style client style setly style style diamand client m and client			Reverse-N or Z format used as required by client	51
ning sage/Scenario cenario style gt o client style client style client style cenario assage/Scenario cenario by item or client and client			-	50
ning sage/Scenario cenario style gto client style client style cenario assage/Scenario e-page passages by item or client			Calculators available as required by item and client	49
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		•	Correct Content directions entered	32
			Test Directions	

PA Online Form Checklist

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		С	Content	
		믿	Project Lead	
		•	Secondary Responsibility	
		+	Primary Responsibility	
+	•		Correct acknowledgement file	78
+		•	Video help included where applicable	77
+		•	Audio help included where applicable	76
+	•		Contains a content appropriate Passage/Scenario file	75
+	•		Contains correct Equation Builder file	74
+	•		Contains a content appropriate Quick Nav file	73
+	•		Contains a file for each item type	72
+		•	Contains a file for each tool	71
+		•	Updated with new functionality	70
+		•	Correct Test Directions for client, content, and grade	69
+		•	Correct tabs available (Using Help, Test Directions, Tools, How To, Hints, Scoring, Audio, Scoring Guidelines, Acknowledgements)	68
			Help	
			- במכון כפון מווטאיט וטי ווויסמינ	
•	+		Table Builder: - Header row present - Number of columns - Number of rows - Fach cell allows for input	67
			-	
•	+		Bar Graph: -Title included - Axis labels for student input	66
•	+		Line Input: - Scale is correct - Titles and labels are correct - Student text entry fields set correctly - Pre-plotted points, lines, shading, etc. correct	65
			- Pre-plotted points, lines, shading, etc. correct	
•	+		Graphing Input: - Scale is correct - Titles and labels are correct - Student text entry fields set correctly	64
• >	+		Hot Spot: - Directions are precise - Hot spot areas correctly aligned with graphic - Hot spot selection indicator functioning correctly (graphicmod, textmod, partitionmod, regular hotspot) - Maximum number of selections set correctly	63

Test Development Technologies

Appendix C: Sample Student Materials



APPENDIX C. SAMPLE STUDENT MATERIALS (CONFIDENTIAL)

The materials in this appendix have been redacted because they contain secure test items.



Appendix D: Sample Teacher and **Administrator Materials**



Assessment Update

February 2015

Testing available on iPads/Chromebooks

On November 17, 2014, DRC released new INSIGHT software that makes it possible for students to use iPads and Chromebooks for the Classroom Diagnostic Tools (CDT), the Keystone Exams, and the PSSAs.

All of the iPad/Chromebook instructional and reference materials are readily available in eDIRECT, including recordings of the Technology Coordinator training sessions that took place on November 19 and 20, 2014.

Testing on an iPad requires the iOS7 or newer operating system so that the "guided access" feature can lock-down the iPad during testing. Districts/schools using iPads will access the software via an application in eDIRECT.

External keyboards will not be required for the CDT since the diagnostic tool consists entirely of multiple-choice items. External keyboards will be required for all Keystone and PSSA testing since

those assessments include openended items.

Testing on a Chromebook requires Chrome OS 33 or newer to support the required Single App Kiosk Mode that locks-down the Chromebook during testing. Districts/schools using Chromebooks will access the software via an application in eDIRECT.

Continued on page 3

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CDT page 2

Keystone...... page 3

Key Dates..... page 4

DATA RECOGNITION

PSSAs separate ELA and Math booklets

Students in grades 3–8 must participate in the PSSAs applicable to each grade. Results from the English Language Arts, Mathematics, and Science assessments will be used for accountability reporting.

New this year, the Mathematics assessment will be in a separate booklet from the new English Language Arts assessment. Each assessment—English Language Arts, Mathematics, and Science—has its own separate testing window.

The 2015 PSSAs are available online and paper/pencil. If interested in taking the exams online, Online Tools Trainings (OTTs) and Tutorials will be available in February. OTTs and Tutorials provide a hands-on experience in online testing.

Student Precode Labels will be produced for all valid student records provided to DRC from the November PIMS Internal Snapshot

Continued on page 2

Contact DRC PA Customer Service 1-800-451-7849
Email: PAcustomerservice@datarecognitioncorp.com
eDIRECT website: https://pa.drcedirect.com

CDT Continues to Grow

901,944	809,993	786,193	Total
44,712	26,949	21,928	Writing/English Composition
165,451	185,219	165,603	Science
351,163	292,493	267,794	Reading/Literature
340,618	305,332	330,868	Math
(as of Jan. 30)			
2014–15	2013-14	2012-13	CDT Content

Standards. All District Assessment Coordinators have access to the Aligned System (SAS) and fully aligned to the Pennsylvania Core interactive reporting suite that is fully integrated with the Standards content covered by the PSSA and Keystone Exams and include an for students in grades 3 through high school. The CDTs are based on provide diagnostic information to guide instruction and intervention The online Classroom Diagnostic Tools (CDTs) are designed to available on DRC's eDIRECT website CDTs and additional information about the online tool is readily

PSSA testing

(continued from page 1)

Schools do not have to establish paper test sessions in eDIRECT to receive precode labels. Schools testing online must establish online test sessions in eDIRECT to receive test tickets. All additional materials requests for the PSSA must be placed through eDIRECT.

Sites receiving secure paper/ pencil materials must report the date of materials receipt and the number of materials returned. The Materials Receipt Notice and Materials Accountability Form are found in eDIRECT. Permissions have been granted to the District Assessment Coordinator.

PSSA Training Opportunities

Live Location	Date	Time	Videoconference Sites	Phone Number
Pittsburgh PaTTAN		9 am – 11 am	PaTTAN Harrisburg	
3190 William Pitt Way	March 10	∞	PaTTAN King of Prussia	(412) 826-2336
Pittsburgh, PA 15238		1 pm – 3 pm	Intermediate Unit Sites	
Harrisburg PaTTAN		9 am – 11 am		
6340 Flank Drive	March 12	∞	Intermediate Unit Sites	(717) 541-4960
Harrisburg, PA 17112		1 pm – 3 pm		
King of Prussia PaTTAN		9 am – 11 am	PaTTAN Harrisburg	
200 Anderson Rd	March 13	∞	PaTTAN Pittsburgh	(610) 265-7321
King of Prussia, PA 19406		1 pm – 3 pm	Intermediate Unit Sites	

The 2015 PSSA administration training sessions will be held at the Harrisburg, King of Prussia, and Pittsburgh PaTTAN office locations. The information being presented is critical to the administration of these assessments; therefore, it is required that every LEA send at least one representative to a training session. These are train-the-trainer sessions. It is expected that the representative deliver the information to his/her coordinators and test administrators.

The training sessions will be presented live at each of the PaTTAN sites listed above and broadcast via video-conference to the other PaTTAN locations, along with additional Intermediate Unit sites. For a list of available down link sites and to register for this event, please visit PaTTAN's website at www.pattan.net. Online registration enables you to receive registration confirmation via email, keep track of professional development activities with the transcript feature, and view other available activities.

Spring Keystone Exams

occurred October 27-31, 2014. the 2015 reporting. Ordering materials for the Spring Keystone Exams haven't passed may take the exams again in order to be proficient for and School Performance Profile calculations. Grade 11 students who should be administered the exams for inclusion in 2015 accountability who will be in grade 11 in spring 2015 and have not yet taken an exam have finished the corresponding course work. Additionally, students Spring Keystone Exams are available for Algebra I, Literature, and Biology. These exams should be administered to any students who The Spring Keystone Exams testing window is May 13–27, 2015. The

precode labels for the Spring Keystone Exams, paper test sessions provided to DRC from PIMS will be available in eDIRECT to assist with must be created in eDIRECT during this window. Student records the test setup process. Exams will be available March 16–20, 2015. In order to receive Test Setup for the production of precode labels for the Spring Keystone

more details. Winter Keystone Exams. Please see the PaTTAN training calendar for occur on April 28, 2015, for those districts that did not administer the The 2015 Spring Keystone Exam Administration Training Sessions will

Secure materials for the Spring Keystone Exams will arrive by April 29, 2015. Schools should be prepared to handle both outgoing PSSA materials and incoming Keystone materials at this time.

iPads/Chromebooks (continued from page 1)

DRC's Device Toolkit software allows sites to configure and install the Chromebooks and includes functionality to help organize and manage Chromebook devices.

DRC INSIGHT is not supported on touch-enabled Chromebooks.

Districts should carefully consider all technological, logistical, and security issues as the use of these devices continues to expand. Both DRC and PDE are available as a resource for any questions the districts have regarding iPad and Chromebook usage.

Winter Keystone Exams and Reporting

The Online Corrections System for the 2014/2015 Winter Keystone Exams was available Feb. 11–18, 2015. During this window, every LEA had the opportunity to match student records to PIMS, update Enrolled in Course data, and link student records from the 2014/2015 Winter Keystone Exams to past Keystone Exams test events.

The student data updated in the corrections system will be applied to the Winter Keystone results (District Student Data Files) that will be available on March 2 and the Summary Reports that will be available on March 27 via eDIRECT. Access to student results in eDIRECT is limited to the Reporting Contact (typically a superintendent) on file with DRC. Please work with your district's superintendent for access to or information regarding the Winter Keystone results.

The Individual Student Reports (ISRs) will be delivered to Districts/Schools by April 13.

Summer Enrollment System

The Summer Keystone Exams Enrollment System will be available April 6–10, 2015, in eDIRECT.

During this enrollment window, LEA's have the ability to update contact information and provide projected school-level testing counts. The information collected in this system will be used to determine material counts and the delivery locations. Counts must be provided during this window to receive testing materials for the 2015 Summer Keystone Exams.

The testing window for the Summer Keystone Exams is July 27–31, 2015.

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April 13 2015	Individual Student Reports (ISRs) Available in the Field
March 27, 2015	School and District Summary Reports Available
March 2, 2015	District Student Data Files Available
February 11–18, 2015	Corrections/Match-to-Master Window
	Winter Keystone
May 8, 2015	Deadline for Districts to return materials to DRC for processing
May 4–8, 2015	ELA, Math, Science Make-up Test Window
April 27–May 1, 2015	Science Test Window
April 20–24, 2015	Mathematics Test Window
April 13–17, 2015	English Language Arts Test Window
March 30, 2015	Secure Test Materials Arrive at Districts/Schools
March 16, 2015	Non-secure Test Materials Arrive at Districts/Schools
March 9–13, 2015	Test Administrator Training
February 23, 2015	Online Test Setup Open
	ASSA
May 13–27, 2015	Testing Window
April 29, 2015	Secure Test Materials Arrive at Districts/Schools
April 15, 2015	Non-secure Test Materials Arrive at Districts/Schools
March 16–20, 2015	Test Setup Window to Receive Precode Labels
	Spring Keystone
	Key Dates



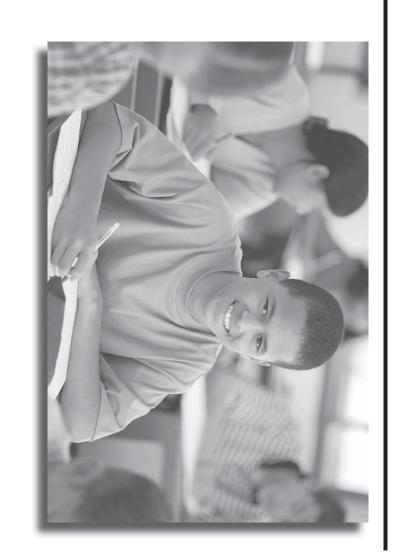






The Pennsylvania System of School Assessment

English Language Arts Preliminary Item and Scoring Sampler



Grade 5

Pennsylvania Department of Education Bureau of Assessment and Accountability—January 2015

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INTRODUCTION

General Introduction

instructional programs aligned with the Pennsylvania Core Standards Assessment Anchors. These tools include be useful in preparing students for the statewide assessment. Scoring Sampler is a useful tool for Pennsylvania educators to use in preparing local instructional programs. It can also assessment anchor documents, assessment handbooks, and content-based item and scoring samplers. This Item and The Pennsylvania Department of Education provides districts and schools with tools to assist in delivering focused

Pennsylvania Core Standards (PCS)

test questions appearing on the operational portions of the 2014 PSSA will align to both the current Pennsylvania spring 2015 PSSA administration; however, stimulus passages and multiple-choice, short answer, and writing prompt PSSA will transition to PCS-based operational Mathematics and English Language Arts assessments starting with the Core Standards-based 2013 PSSA Assessment Anchors and Eligible Content. The Mathematics, Reading, and Writing This sampler contains examples of test questions and stimulus passages that are aligned to the new Pennsylvania Academic Standards and the new PCS

PCS-based Operational Assessment in grades 3	Pennsylvania Core Mathematics	Spring 2014 PCS Field Test in grades 3 through 8	Spring 2013 PCS Field Test in grades 3 through 5	Pennsylvania Academic Standards Mathematics	Operational Assessment
	atics			atics	Conte
ed Operational Assessı	English Language Arts	PCS Field Test in grades 3 through 8	PCS Field Test in grades 3 through 5	Reading	Content Area (Test)
PCS-based Operational Assessment in grades 3 through 8	uage Arts	PCS Field Test in grades 6 through 8	PCS Field Test in grades 3 through 5	Writing	

The 2013 PCS-aligned Assessment Anchor and Eligible Content documents are posted on this portal:

www.education.state.pa.us [Click on the green check mark and select "PSSA."]



What Is Included

prompts that have been written to align to the Assessment Anchors that are based on the Pennsylvania Core Anchors. Each sample test question has been through a rigorous review process to ensure alignment with the Assessment PSSA. The test questions provide an idea of the types of items that may appear on an operational, PCS-based PSSA. Standards (PCS). The passages represent some of the genres approved by PDE to appear on an operational, PCS-based This sampler contains stimulus reading passages with test questions, standalone questions, and mode-specific

Purpose and Uses

independently or together with colleagues within a school or district. respond to the test questions in this sampler. Educators can use the sampler as a guide to score the responses used as part of a local instructional program. In addition, classroom teachers may find it beneficial to have students sampler may be used as examples for creating assessment items at the classroom level, and it may also be copied and The passages with test questions, non-passage based standalone questions, and mode-specific prompts in this

Item Format and Scoring Guidelines

Choice questions (MC), Selected-Response questions (SR), Text-Dependent Analysis Questions, and mode-specific The PCS-based PSSA has multiple types of test questions. For grade 5, the types of test questions are Multiple-

stimulus reading passage, while other MC test questions are independent of a passage. Each correct response to an MC test question is worth one point. Multiple Choice: Each of this type of test question has four answer choices. Some MC test questions are based on a

the student analyzes a passage and chooses the best answer from four answer choices. In Part Two, the student elicits from a multiple-choice question in that there may be more than four answer options and more than one correct has read either a Literature or Informational Text passage. In Part One, which is similar to a multiple-choice question, answer. Each SR test question is worth either two or three points. evidence from the passage to select one or more answers based on his/her response to Part One. Part Two is different Selected Response: Each two-part SR question is designed to elicit an evidence-based response from a student who

information from the passage in order to develop a comprehensive, holistic essay response. The demand required of a student's reading and writing skills in response to a TDA coincides with the similar demands required for a student to paper-and-pencil format and up to 5000 characters in the online format. Both Literature and Informational Texts passage or passage set that each student has read during the test event. There are three response pages in the Text-Dependent Analysis Question: Unlike a prompt, the TDA question is a text-dependent analysis, based on a be college and career ready. The TDA is scored using a holistic scoring guideline on a 1–4-point scale. are addressed through this item type. Students must draw on basic writing skills while inferring and synthesizing

combined with the mode-specific scoring guideline to form a practical scoring guide. mode-specific scoring guideline. In this sampler, examples of student responses representing each score point can be characters in the online format. A prompt is based on a specific mode of writing and may ask the student to write an answer based on a provided prompt. There are two response pages in the paper-and-pencil format and up to 3000 opinion essay, an informative essay, or a narrative essay. Each prompt is scored on a 1-4-point scale using a holistic, Prompt: Each of this type of test question includes an extended response space in which the student composes an

Testing Time and Mode of Testing Delivery for the PCS-Based PSSA

respond to a test question is the same for both methods of test delivery. The following table shows the estimated response time for each item type. The PSSA is delivered in traditional paper-and-pencil format as well as in an online format. The estimated time to

During an official test administration, students are given additional time as necessary to complete the test questions.

30	30	3 to 5	1.5	Estimated Response Time (in minutes)
	TDA	SR	MC	Item Type

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English Language Arts Grade 5

questions, 2 text-dependent analysis questions, 12 standalone multiple-choice questions, and 3 mode-specific This English Language Arts Sampler is composed of 3 passages, 23 multiple-choice questions, 4 selected-response

question and a text-dependent analysis question. dependent analysis question. The third passage is followed by a set of multiple-choice questions, a selected-response The second passage is followed by a set of multiple-choice questions, selected-response questions, and a text-In this sampler, the first passage is followed by a set of multiple-choice questions and a selected-response question.

is displayed with an item-specific scoring guideline and examples of student responses with scores and annotations. Sample student responses for each of the scoring levels are also included for the prompts. by an asterisk (*). Each question is followed by a brief analysis or rationale. Each text-dependent analysis question Each question is preceded by the Assessment Anchor and Eligible Content coding. The correct answer is indicated

samples of text-dependent analysis question responses and mode-specific prompt responses in both formats. A sample online response is noted by the symbol, 📙 The PCS-Based PSSA may be administered in paper-and-pencil format or online. As a result, this sampler includes

Section 1

Directions: On the following pages are Reading passages and questions.

Directions for Multiple-Choice Questions:

Some questions will ask you to select an answer from among four choices.

For the multiple-choice questions:

- First, read the passage carefully.
- Read each question and choose the best answer.
- Only one of the answers provided is correct.
- You may look back at the passage to help you answer the question.
- Record your choice in the answer booklet.

Directions for Selected-Response Questions:

in each part. Some questions will have two parts and will ask you to select one or more answers

For the selected-response questions.

- Read Part One of the question and choose the best answer.
- the question. You may look back at the passage to help you answer Part One of
- Record your choice to Part One in the answer booklet
- Only one of the answers provided in Part One is correct.
- two answers, be sure to select two answers. answers based on your answer to Part One. If Part Two tells you to select Then, read Part Two of the question and choose the best answer or
- the question. You may look back at the passage to help you answer Part Two of
- Record your answer or answers to Part Two in the answer booklet.

Directions for Text-Dependent Analysis Questions:

and use evidence from the passage to write an essay. The English Language Arts TDA question will ask you to analyze the passage

For the TDA Essay:

- Be sure to read the passage and TDA question carefully.
- response Review the Writer's Checklist to help you plan and organize your
- You may look back at the passage to help you write your essay.
- use scratch paper to write a rough-draft essay, be sure to transfer your final essay to the answer booklet. Write your essay in the appropriate space in the answer booklet. If you
- support your response. Be sure to check that your essay contains evidence from the passage to
- formation, punctuation, and word choice Be sure to check your essay for errors in capitalization, spelling, sentence

PASSAGE 1

questions 1-7. Read the following poem about the first humans to land on the moon. Then answer

First Men on the Moon

by J. Patrick Lewis

"The Eagle has landed!" Apollo 11 Commander Neil A. Armstrong

"A magnificent desolation!" Air Force Colonel Edwin E. "Buzz" Aldrin, Jr.

July 20, 1969

That afternoon in mid-July,
Two pilgrims watched from distant space
The Moon ballooning in the sky,
They rose to meet it face-to-face.

Their spidery spaceship *Eagle* dropped Down gently on the lunar sand. And when the module's engines stopped, Cold silence fell across the land.

The first man down the ladder, Neil, Spoke words that we remember now— "Small step for man . . ." It made us feel As if we too were there somehow.

Then Neil planted the flag and Buzz Collected lunar rocks and dust.
They hopped like kangaroos because Of gravity. Or wanderlust.

A quarter million miles away,
One small blue planet watched in awe.
And no one who was there that day
Will soon forget the Moon they saw.

MULTIPLE-CHOICE QUESTIONS

E05.A-V.4.1.2

1. Read the line from the poem.

"The Moon ballooning in the sky,"

What does the metaphor in the line suggest?

- * A. The Moon appears to grow in size.
- B. The Moon appears to move swiftly.
- C. The Moon is brightly colored
- D. The Moon has a perfect shape.

to get larger. Options B, C, and D are not supported by the poem. "ballooning" suggests that the Moon becomes larger. As the spacecraft gets closer to the Moon, it does appear The student is asked to infer the meaning of a given metaphor. Option A is the correct answer since the word

E05.A-K.1.1.1

2. Read the line from the poem.

"They rose to meet it face-to-face."

What is the meaning of the line?

- ⋗ They were able to climb up onto the surface of the Moon from the spaceship.
- $\overline{\omega}$ There were many people traveling together to the Moon.
- Ω They were close enough to see the surface of the Moon from the spaceship
- D. There were people waiting to meet them on the Moon.

descend down a ladder onto the surface of the Moon. information in the passage. Option A is not correct since the astronauts had to land the spacecraft and then face" indicates that the spacecraft was directly in front of the Moon. Options B and D are not supported by The student is asked to interpret the meaning of a given idiom. Option C is the correct answer since "face-to-

E05.A-V.4.1.1

- ώ The meaning of the Latin root "luna" helps the reader know that the word "lunar" refers to
- A. the Moon.
- B. space.
- C. planets.
- D. the Earth.

answer since "luna" is the Latin name for the Moon. Options B, C, and D are not related to the given Latin root. The student is asked to use the Latin root to identify the meaning of the word "lunar." Option A is the correct

E05.A-V.4.1.2

- Read the line from the poem.
- "Cold silence fell across the land."

What does the line most likely mean?

- A. The temperature dropped on the Moon.
- *B. It became suddenly very quiet on the Moon.
- C. It was cold on the spaceship going to the Moon.
- D. The men talked quietly on the spaceship to the Moon.

Option B is the correct answer since the verb "fell" indicates that it was suddenly quiet on the Moon. Options A and C refer to temperature and not to sound. Option D is not supported by information in the poem. The student is asked to interpret the meaning of a line from the poem that contains figurative language.

E05.A-K.1.1.1

- Ö explorers approaching a new frontier? Which line from the poem best supports the inference that the first humans on the Moon were
- A. "That afternoon in mid-July,"
- *B. "Two pilgrims watched from distant space"
- C. "The first man down the ladder, Neil,"
- D. "Spoke words that we remember now -- "

answer since the word "pilgrims" means people who journey long distances. Options A and D do not relate to spacecraft. the journey. Option C refers to Neil Armstrong being literally the first person to go down the ladder from the The student is asked to identify lines from the poem that support the given inference. Option B is the correct

E05.A-C.2.1.1

- <u>6</u> How does the point of view in the poem influence how the landing on the Moon is described?
- ⋋ It reveals to the reader what viewers from home said about the landing.
- $\overline{\omega}$ It indicates to the reader the speaker's thoughts about the landing.
- Ω It tells the reader what the speaker said to the men about the landing
- D It informs the reader of one reporter's opinions about the landing.

supported by information in the poem. that day. The speaker says that "It made us feel/As if we too were there somehow." Options A, C, and D are not is described. Option B is the correct answer since the speaker reveals his or her thoughts and feelings about The student is asked to determine how the point of view in the poem influences how the landing on the Moon

SELECTED-RESPONSE QUESTION

E05.A-K.1.1.2

7. This question has two parts. Answer Part One and then answer Part Two.

Part One

Which theme is **best** supported by the speaker's description of the first landing on the Moon?

- Teamwork makes difficult tasks possible.
- B. Travel can be dangerous but also rewarding.
- C. Scientific discovery is not valued enough.
- D. Adventure brings about excitement and wonder.

Part Iwo

Which line from the poem best supports the answer in Part One? Choose one answer.

- A. "A quarter million miles away,"
- B. "They hopped like kangaroos . . .
- C. "Then Neil planted the flag . . . "
- D. "One small blue planet watched in awe."

The student is asked to identify the theme of the poem and to select details from the poem that support the

Moon was highly respected. by evidence in the poem. In fact, the speaker communicates to the reader that the scientific exploration of the not supported by the poem, since there is no evidence that the trip was dangerous. Option C is not supported watched in awe." In addition, the quotes from the astronauts express excitement about their trip to the Moon Moon were filled with wonder. The speaker says that "A quarter million miles away,/One small blue planet Option A is not supported by the poem, since there is no direct evidence that the trip was difficult. Option B is Part One: Option D is the correct answer since the speaker indicates that people who saw the landing on the

a feeling of wonder. Option A only shows that the trip to the Moon was a distant one. Options B and C show what the public saw the astronauts do while on the Moon. **Part Two:** Option D is the correct answer since this line expresses the theme that adventure brings about

PASSAGE 2

passage and answer questions 14-19. 8-11. Then, read the second passage and answer questions 12-13. Then, read the third The next three passages are about bald eagles. Read the first passage and answer questions

The Eagles Are Back!

by Dorothy Hinshaw Patent

result of good luck. For more than twenty years, scientists and volunteers across the country have symbol, the bald eagle, was no longer endangered. This welcome news for wildlife wasn't just the worked to help the bald eagle come back. And come back it did. In his 1999 Fourth of July celebration speech, President Bill Clinton declared that our national

Once bald eagles spread their wings over every state except Hawaii. Before European settlement, between 25,000 and 75,000 bald eagles lived in the lower forty-eight states, with cities, the number of eagles began to decline. thousands more in Alaska. But as settlers cut down trees and turned wilderness into towns and

At first the number of eagles dwindled slowly. Then during the late 1940s, bald eagle populations began to plummet. And where eagles did survive, few raised chicks. By the hundred breeding pairs of bald eagles were left in the lower forty-eight states. mid-1960s many biologists feared our national bird would disappear forever. Fewer than five

DDT. Starting in the late 1940s, DDT was widely used to control insects such as mosquitoes and crop pests. But while it did kill pests, DDT also got into the food chain, and eagles ate the developing birds inside. Other birds, such as pelicans and ospreys, were having the same their eggs. When a parent nestled up to its eggs to warm them, the shells would break, killing contaminated fish and other prey. The DDT didn't kill eagles, but it did weaken the shells of Luckily, scientists soon discovered the major cause of the bald eagle's decline—the pesticide

species is in danger of becoming extinct, it is listed as endangered. A species at risk of becoming endangered is called threatened. The bald eagle was listed as endangered in forty-three states and threatened in five. Only in Alaska was the bald eagle holding its own. Something had to be done. In 1972 the U.S. government banned DDT. Then in 1973 the all-important Endangered Species Act was passed by Congress. The Endangered Species Act protects plants and animals whose populations are so small that they might disappear forever. If a

were kept away so the birds wouldn't be bothered. And anyone who killed a bald eagle had to pay gigantic trees to build their huge nests. They feed largely on fish and water birds, so they need to live near undisturbed lakes, ponds, and rivers. When bald eagles nested on public land, people government didn't stop there. Places where bald eagles lived were protected. Eagles require Eagles started to recover in 1974 when the effects of leftover DDT began to wear off. But the

there. As soon as a female eagle laid a clutch of eggs, they were removed and kept warm so that they would hatch. Most birds then laid two more eggs, which they were allowed to care for. The extra eggs could be placed in the nest of a pair of eagles whose eggs didn't hatch. The foster captivity. Bald eagles were brought to the Patuxent Wildlife Research Center in Maryland and bred ways to increase the number of eagles faster. One way to do this was to raise eagle chicks in had been hatched there for release into the wild. could be raised from each mated pair. By the time the program ended in 1988, 124 bald eagles parents would then raise the chick or chicks as their own. In this way, four eaglets instead of two Because a pair of eagles normally produces just two eggs each year, scientists searched for

nest in a good eagle habitat. Humans who stay out of sight bring food for the young birds until they can fly and hunt well enough to feed themselves. eaglets are eight weeks old, they are given a new home high on a tower or in an abandoned eagle Young eagles can learn to live on their own through a method called hacking. When captive

states has increased steadily since 1975. All the work to save bald eagles paid off. The number of bald eagles in the lower forty-eight

MULTIPLE-CHOICE QUESTIONS

E05.B-K.1.1.2

8. Read the details from "The Eagles Are Back!"

"But while it did kill pests, DDT also got into the food chain, and eagles ate contaminated fish and other prey."

"The extra eggs could be placed in the nest of a pair of eagles whose eggs didn't hatch."

Which main ideas of the passage are supported by the details?

- ⋗ extinction. The bald eagle has been endangered in the past, and the bald eagle is now near
- Ē eagle return. People were responsible for the bald eagle's decline, and people have helped the bald
- Ω rivers The bald eagle has lived in many states, and the bald eagle needs to live near lakes and
- D bald eagles lived. People were celebrating the bald eagle's return, and people have cut down trees where

The student is asked to identify the main ideas of the passage from given details. Option B is the correct answer since the two given details show how humans have affected the bald eagle population in both negative, and details from the passage, but they are not main ideas supported by the given sentences. later, positive ways. Option A is erroneous information and not based on the passage. Options C and D are both

E05.B-V.4.1.1

- ဗ What does the word contaminated mean as it is used in the passage?
- A. poisoned
- B. furious
- C. astonished
- D. worthless

correct answer. In the passage, the words "kill" and "weaken" suggest that "contaminated" relates to poison Options B, C, and D are not supported by context clues in the passage The student is asked to identify the meaning of the word "contaminated" using context clues. Option A is the

E05.B-V.4.1.2

- <u> 1</u>0. In "The Eagles Are Back!" which word is an antonym for gigantic?
- A. peaceful
- B. steady
- C. bare
- D. small

sentence. Options A, B, and C are not antonyms for the given word and are not supported by the context of the has the opposite meaning of "gigantic." The meaning is clued by the words "huge nests," which are in the same The student is asked to identify an antonym for the word "gigantic." Option D is the correct answer since "small"

E05.B-C.3.1.1

- **:** How does the author of "The Eagles Are Back!" support the point "by the mid-1960s many biologists feared our national bird would disappear forever"?
- ⋗ by stating the opinion, "this welcome news for wildlife wasn't just the result of good luck"
- Ж-Ψ. in the lower forty-eight states" by providing the statistic, "fewer than five hundred breeding pairs of bald eagles were left
- Ω by including the detail, "eagles started to recover in 1974 when the effects of leftover DDT began to wear off"
- D. by stating the fact, "by the time the program ended in 1988, 124 bald eagles had been hatched there for release into the wild"

a low number. Options A, C, and D relate to the increase in the bald eagle population. disappear forever. Option B is the correct answer since it shows how the bald eagle population had dwindled to The student is asked to determine how the author supports the point that scientists feared the bald eagle would

Read the second passage and answer questions 12-13

Bald eagles make <u>a</u> comeback in Chicago

The following passage is from a television news report that was broadcasted on April 16, 2012. Brian Williams and Kevin Tibbles are television news reporters.

may live a lot closer to you than you think. Our report from NBC's Kevin Tibbles. in recent years. So much so, they're not just showing up in the wilds of Maine and Montana. They being totally wiped out in America. But they've made a remarkable comeback, as you may know, Brian Williams (anchor): Finally tonight, bald eagles, the symbol of America, came close to

the 50 years Stan Wandersee's lived in this house, he's seen many come and go, but never any like these Kevin Tibbles (reporting): Some new neighbors are raising a family in St. Paul, Minnesota. In

Mr. Stan Wandersee: This is a—this is a gift of nature.

abandon decades ago. Tibbles: The bald eagle is returning to areas [of] urban sprawl [that] pollution forced it to

weren't able to reproduce, their numbers really plummeted **Ms. Megan Ross** (Lincoln Park Zoo, Chicago, Illinois): DDT was a really big problem for the d eagles. Bald eagles in particular were not able to form appropriate shells, and so, since they

spreading its wings. And many can now see them in a setting that doesn't involve a trip to the zoo Tibbles: Once on the endangered species list, this majestic symbol of American pride is

q see them right in our backyard. Ms. Ross: I think bald eagles are just such majestic creatures. It'll be really nice and exciting

Tibbles: When this pair nested at the Alcoa plant in Davenport, Iowa, employees set up a webcam to share these intimate pictures of the eaglets with the world. It's had five million views this year alone

years: an eagle's nest. The fact that they've come back, does that tell us anything? home. Yet here, just a few miles from the skyscrapers, is something that hasn't been seen in 100 This secluded forest preserve sits hidden from the roughly 10 million people who call Chicago

It tells us that we're doing the right thing. Mr. Chris Merenowicz (Forest Preserve District of Cook County, Illinois): I think it tells us a lot.

News, Chicago icons can once again live side by side with the humans who cherish them. Kevin Tibbles, NBC 48 states. Today those numbers have soared to more than 9,000, giving hope these treasured **Tibbles:** And it was a close call. By the 1960s, just 450 pairs of eagles remained in the lower

MULTIPLE-CHOICE QUESTION

E05.B-V.4.1.1

12. Read the sentences from "Bald eagles make a comeback in Chicago."

"By the 1960s, just 450 pairs of eagles remained in the lower 48 states. Today those numbers have soared to more than 9,000 . . . "

What does the word soared mean as it is used in the sentences?

- A. risen
- B. surprised
- C. mistaken
- D. found

meaning of "soared" is "risen." Options B, C, and D are not supported by the context of the given sentences. The student is asked to determine the meaning of the word "soared." Option A is the correct answer since one

SELECTED-RESPONSE QUESTION

E05.B-K.1.1.1

<u>1</u>3. This question has two parts. Answer Part One and then answer Part Two.

Part One

What is an inference that can be drawn from "Bald eagles make a comeback in Chicago"?

- People are very interested in seeing bald eagles in the wild
- B. Bald eagles only live in urban areas.
- \mathcal{O} Media coverage has had a negative impact on the eagles
- In the future the eagle population will decrease.

Part Iwo

Choose one answer. Which sentence from the passage **best** supports the inference in Part One?

- A. "DDT was a really big problem for the bald eagles."
- $\bar{\omega}$ "Some new neighbors are raising a family in St. Paul, Minnesota."
- C. "It's had five million views this year alone."
- D. "It tells us that we're doing the right thing."

from the passage that best supports the inference. The student is asked to select an inference based on information in the passage and then to select a sentence

contain erroneous information. Option D is not supported by information in the passage. backyard are "a gift." Also, the webcam set up at the Alcoa plant in lowa was very popular. Options B and C Part One: Option A is the correct answer since the passage states that Stan Wandersee feels that eagles in his

bald eagles. Options A, B, and D do not relate to the correct inference in Part One. Part Two: Option C is the correct answer since it refers to the popularity of a webcam that shows video of

Read the third passage and answer questions 14-19

Bald eagle deaths raising concerns

By Matthew Tresaugue San Antonio Express-News

the once-endangered species is rebounding, federal wildlife officials said. year because of unintended encounters with power lines, an alarming rate of death at a time when Saturday, April 7, 2012 — At least seven bald eagles have died in eastern Texas in the past

including Harris. raptors died from electrocutions or impacts involving power lines and poles in six counties Jim Stinebaugh, a U.S. Fish and Wildlife Service special agent based in Houston, said the

"It is happening more often, and because of the eagles' resurgence, it is going to increase," he

1960s, is flourishing again in Texas and across the country. The Interior Department removed the large and charismatic bird from the protection of the Endangered Species Act five years ago, with about 10,000 mating pairs nationwide. The bald eagle, a national symbol almost wiped out by pesticide, pollution and hunters in the

At the time the species' status changed, Texas had 156 breeding pairs, up from a historic low of five in 1970, according to the Texas Department of Parks and Wildlife.

Since then, the state agency has not conducted annual population surveys of bald eagles because of the financial cost, said Brent Ortego, a state biologist.

a year. Ortego said he thinks the eagle population has continued to grow at a rate of about 10 percent

"We think they are doing OK," he said, "but we do not have the data."

they found." Still, Ortego said the number of deaths in the past year is high and "those are just the ones

forested areas near rivers and lakes, the same kind of places that also are drawing more people, more buildings and more energy needs. As the population grows, the birds have had to adapt to the hubbub of humanity. They prefer

distance of an eagle's wingspan, which ranges from 6 feet to 8 feet. which use them to spot prey. The problem arises when electricity transmission wires are within the Power poles and lines are particularly attractive to birds, especially eagles, hawks and falcons,

such a large bird that a lot of poles do not have that kind of spacing." "The danger comes from the potential to touch two lines," said Jeff DallaRosa, ecological programs manager for CenterPoint Energy Inc., which delivers power to Houston. "The eagle is

incident. In January, an eagle carrying prey struck CenterPoint lines near the San Jacinto River in east Harris County. Crews found the dead bird while working to restore power in the area after the

CenterPoint responded by providing a plan to prevent electrocutions to federal authorities. The strategies include installing "raptor guards" that prevent eagles from roosting on wires and poles and working with Houston Audubon and other bird enthusiasts to identify lines near nests for extra

"The young ones can be awkward and do not make the best decisions," DallaRosa said

the Bald and Golden Eagle Protection Act and the Migratory Bird Treaty. Stinebaugh, however, said companies such as CenterPoint Energy recognize the problem and have done a good job taking corrective actions. Authorities can seek criminal prosecution of companies and others for the bird deaths under

MULTIPLE-CHOICE QUESTIONS

E05.B-V.4.1.1

- 14. In "Bald eagle deaths raising concerns," the meaning of the Latin prefix "trans-" helps the reader know that "transmission" means
- A. communication above.
- B. communication beneath.
- C. communication before.
- D. communication across.

Option D is the correct answer since "trans-" means "across." Options A, B, and C do not contain the correct meaning of the given prefix. The student is asked to use the Latin prefix "trans-" to determine the meaning of the word "transmission."

E05.B-V.4.1.2

- 5 In "Bald eagle deaths raising concerns," which word is a synonym for restore?
- A. react
- B. reflect
- C. relate
- D. repair

problem. Options A, B, and C are not synonyms for the given word and do not make sense in context. company's efforts to "restore" power indicate that power was off, and they were attempting to repair the The student is asked to identify a synonym for the word "restore." Option D is the correct answer. The power

SELECTED-RESPONSE QUESTION

E05.B-K.1.1.3

<u> 16.</u> The following question has two parts. Answer Part One and then answer Part Two.

Part One

existence of power lines and the rate of bald eagle deaths? Based on "Bald eagle deaths raising concerns," what is the relationship between the

- ⋗ The materials that are used to build power lines affect the rate of bald eagle deaths.
- $\overline{\omega}$ pesticides used near power lines affect the rate of bald eagle deaths
- Ω The distance power lines are from each other affects the rate of bald eagle deaths
- D The pollution created by power lines affects the rate of bald eagle deaths

Part Two

What evidence from the passage supports your answer above? Choose two answers

- "... electricity transmission wires are within the distance of an eagle's wingspan, ..."
- $\overline{\omega}$ 'The danger comes from the potential to touch two lines,' . .
- Ω "Power poles and lines are particularly attractive to birds, . . .
- D. "Crews found the dead bird while working to restore power in the area . . ."

eagle deaths and then to identify evidence from the passage to support this relationship. The student is asked to determine the relationship between the existence of power lines and the rate of bald

Part One: Option C is the correct answer since it is a fact that some power lines are too close together. Options A, B, and D are not supported by information in the passage.

poles attractive but does not relate to the rate of bald eagle deaths. Option D relates to bald eagle deaths but Part Two: Options A and B are the correct answers since they support the fact that the small distance not to the distance of the power lines. between the power lines affects the rate of bald eagle deaths. Option C states that eagles find the power

Questions 17-19 refer to more than one passage. Be sure to read each question carefully

MULTIPLE-CHOICE QUESTIONS

E05.B-C.2.1.1

- 17. Which statement best describes the difference in the point of view of "The Eagles Are Back!" from the other two passages?
- ➣ explaining the problems faced by bald eagles, while the other two passages are written "The Eagles Are Back!" is written from the point of view of a scientist interested in bald eagles. from the point of view of biologists and politicians studying the effects of pesticides on
- Ē eagles, while the other two passages are written from the point of view of park rangers who discuss how parks have brought back bald eagles. "The Eagles Are Back!" is written from the point of view of a student researching bald
- <u>*</u> are written from the point of view of reporters who discuss sightings of bald eagles in "The Eagles Are Back!" is written from the point of view of an individual providing a particular areas of the country. general history of bald eagles throughout the country, while the other two passages
- D. "The Eagles Are Back!" is written from the point of view of a resident who has sighted who describe where bald eagles used to live. bald eagles, while the other two passages are written from the point of view of historians

eagles at different points in time. "Bald eagles make a comeback in Chicago" was written by two television news answer. "The Eagles Are Back!" is written by someone who is giving information about the population of bald not supported by information in the passages. reporters. "Bald eagle deaths raising concerns" was written by a newspaper reporter. Options A, B, and D are The student is asked to identify the difference in the points of view of the three passages. Option C is the correct

E05.B-C.2.1.2

- 18. What is the overall structure of all three passages?
- ⋋ of bald eagles. All three passages compare different ways that have been used to increase the number
- -X- $\overline{\omega}$ increasing in number. All three passages discuss the cause and effect of the bald eagle decreasing and then
- Ω then answer it. All three passages ask a question about how the bald eagle has increased in number and
- D. in order of importance. All three passages discuss the issue of the decreasing number of bald eagles with details

all three passages discuss how people have affected the number of bald eagles in negative and then in positive ways. Options A, C, and D are not supported by information in the passages. The student is asked to identify the overall structure of the three passages. Option B is the correct answer since

TEXT-DEPENDENT ANALYSIS QUESTION

E05.E.1.1

The passages discuss the impact that people have had on the bald eagle. Write an essay all three passages to support your response analyzing how people are helping the bald eagle increase in numbers. Use information from

Text-Dependent Analysis Question Writer's Checklist for the

PLAN before you write

- Make sure you read the question carefully.
- Make sure you have read the entire passage carefully.
- Think about how the question relates to the passage.
- Organize your ideas on scratch paper. Use a thought map, outline, or other graphic organizer to plan your essay.

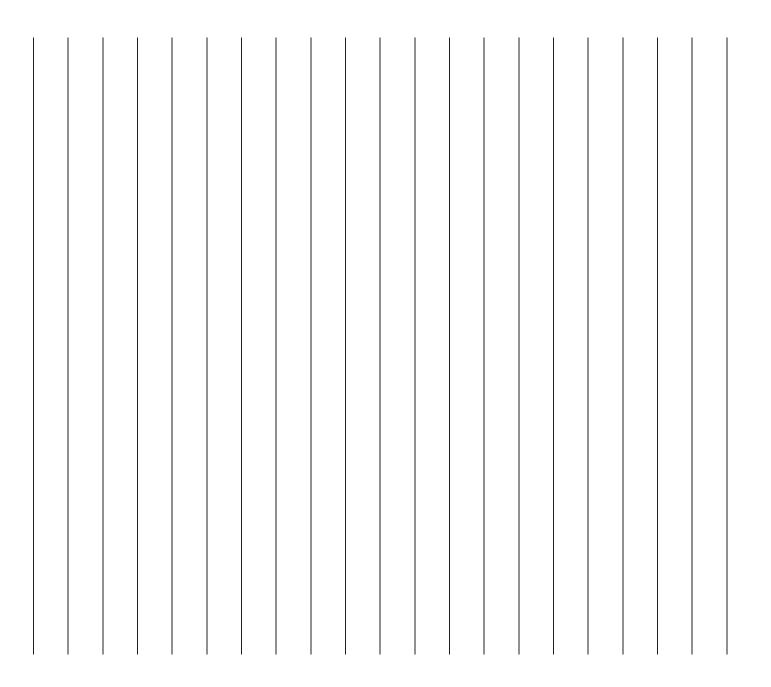
FOCUS while you write

- Analyze the information from the passage as you write your essay.
- Make sure you use evidence from the passage to support your response
- Use precise language, a variety of sentence types, and transitions in your essay.
- Organize your paper with an introduction, body, and conclusion.

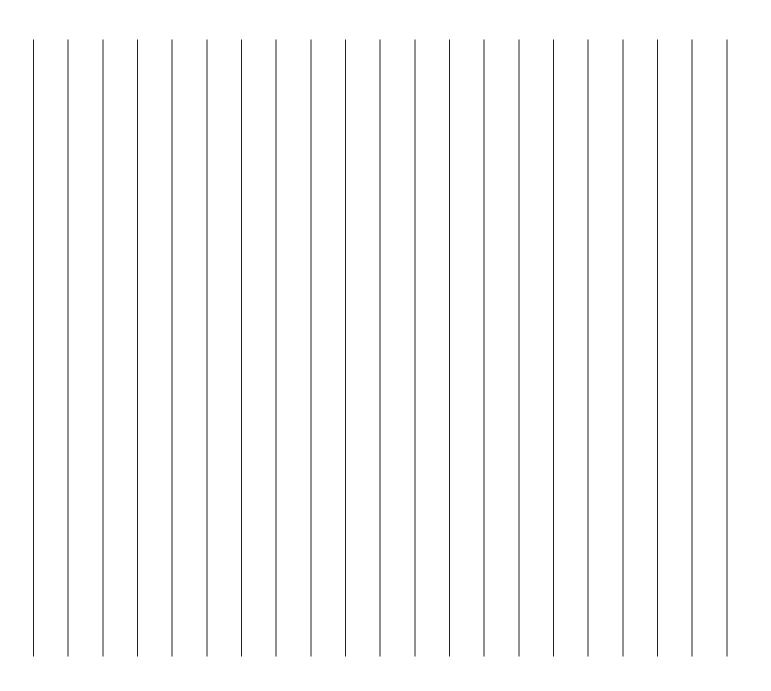
PROOFREAD after you write

□ I corr	□ I use	□ I stay	□ I wro
	$\ \square$ I used evidence from the passage to support my response.	$\ \square$ I stayed focused on answering the question.	☐ I wrote my final essay in the answer booklet.











AFTER YOU HAVE CHECKED YOUR WORK, CLOSE YOUR ANSWER BOOKLET AND TEST BOOKLET SO YOUR TEACHER WILL KNOW

STOP

YOU ARE FINISHED.

TEXT-DEPENDENT ANALYSIS QUESTION SCORING GUIDELINE

Item #19

Assessment Anchor:

E05.E.1—Evidence-Based Analysis of Text

Specific Assessment Anchor Descriptor addressed by this item:

E05.E.1.1-Draw evidence from literary or informational texts to support analysis, reflection, and research.

Score Point	Description
	Effectively addresses all parts of the task demonstrating in-depth analytic understanding of the
	text(s)
	Effective introduction, development, and conclusion identifying an opinion, topic, or
	controlling idea related to the text(s)
	 Strong organizational structure that effectively supports the focus and ideas
	• Thorough analysis of explicit and implicit meanings from text(s) to effectively support claims,
	opinions, ideas, and inferences
_	• Substantial, accurate, and direct reference to the text(s) using relevant key details, examples,
1	quotes, facts, and/or definitions
	• Substantial reference to the main idea(s) and relevant key details of the text(s) to support the
	writer's purpose
	Skillful use of transitions to link ideas
	Effective use of precise language and domain-specific vocabulary drawn from the text(s) to
	explain the topic and/or to convey experiences/events
	• Few errors, if any, are present in sentence formation, grammar, usage, spelling, capitalization,
	and punctuation; errors present do not interfere with meaning
	Adequately addresses all parts of the task demonstrating sufficient understanding of the
	text(s)
	Clear introduction, development, and conclusion identifying an opinion, topic, or controlling
	idea related to the text(s)
	 Appropriate organizational structure that adequately supports the focus and ideas
	• Clear analysis of explicit and implicit meanings from text(s) to support claims, opinions, ideas,
	and inferences
N	 Sufficient, accurate, and direct reference to the text(s) using relevant details, examples,
C	quotes, facts, and/or definitions
	• Sufficient reference to the main idea(s) and relevant key details of the text(s) to support the
	writer's purpose
	Appropriate use of transitions to link ideas
	Appropriate use of precise language and domain-specific vocabulary drawn from the text(s) to
	explain the topic and/or to convey experiences/events
	• Some errors may be present in sentence formation, grammar, usage, spelling, capitalization,
	and punctuation; errors present seldom interfere with meaning

Non- Scorables ILResponse in a language other than English ILIllegible
and punctuation; errors present in sentence formation, grammar, usage, spelling, capitalization, and punctuation; errors present often interfere with meaning BLK (blank) No response or written refusal to respond or too brief to determine response
• Little or no use of precise language or domain-specific vocabulary drawn from the text(s)
Few, if any, transitions to link ideas
definitions
 Insufficient reference to the text(s) using few details, examples, quotes, facts, and/or
• Insufficient or no analysis of the text(s); may or may not support claims, opinions, ideas, and
 Minimal evidence of an organizational structure
 Minimal evidence of an introduction, development, and/or conclusion
 Minimally addresses part(s) of the task demonstrating inadequate understanding of the text(s)
punctuation; errors present may interfere with meaning
 Errors may be present in sentence formation, grammar, usage, spelling, capitalization, and
explain the topic and/or to convey experiences/events
 Inconsistent use of precise language and domain-specific vocabulary drawn from the text(s) to
 Inconsistent use of transitions to link ideas
• Weak reference to the main idea(s) and relevant details of the text(s) to support the writer's
2 • Vague reference to the text(s) using some details, examples, quotes, facts, and/or definitions
supports claims, opinions, ideas, and inferences
 Weak or inconsistent analysis of explicit and/or implicit meanings from text(s) that somewhat
 Weak organizational structure that inconsistently supports the focus and ideas
controlling idea somewhat related to the text(s)
 Weak introduction, development, and/or conclusion identifying an opinion, topic, or
 Inconsistently addresses some parts of the task demonstrating partial understanding of the
FOIIIC
Score

TEXT-DEPENDENT ANALYSIS QUESTION STUDENT RESPONSES

E05.E.1.1 Response Score: 4



all three passages to support your response analyzing how people are helping the bald eagle increase in numbers. Use information from The passages discuss the impact that people have had on the bald eagle. Write an essay

Since the 1960s people have been concerned about the numbers of bald eagles. Many different people have taken action to help the bald eagle increase in numbers

habitat and kept people away because eagles like peaceful spots near lakes and eagles were left in the lower forty-eight states." The government also protected their babies had a better chance to survive. The government also put the eagle on the eagles when the poison wore off. They were able to have strong eggs again, so the supply and making their eggs weak, the government banned DDT and that helped When people realized that a pesticide (DDT) was contaminating the eagles' food Endangered Species List because "fewer than five hundred breeding pairs of bald

there for release into the wild." each. "By the time the program ended in 1988, 124 bald eagles had been hatched another set of eggs, so then two pairs of eagles were each able to raise 2 babies eagles and giving them to another pair of eagles to raise. The first pair usually had be set free in the wild, and they also helped by taking two eggs from one pair of At the Patuxent Wildlife Research Center in Maryland, people raised eagle chicks to

eaglets. Also, for the first time in 100 years, there is an eagle nest in Chicago. Alcoa plant set up a webcam so people could watch a pair of eagles raise their According to the passage from the television news report, employees at a lowa

eagles like around lakes and where there is a nest. guards" on the power lines so eagles won't die on them where there are many some of them are dying by electrocuting on power lines or crashing into the poles. increase, the number of deaths increase too because there are so many eagles and CenterPoint Energy and the Houston Audobon are developing ways to put "raptor newspaper article from the San Antonio Express-News says that as eagle numbers Unfortunately, as eagles increase there is increased danger for them. The

Because of all these people bald eagles "have soared to more than 9,000".

and purpose. Precise language drawn from the texts ("a pesticide (DDT)," "124 bald eagles had been using relevant key details and facts supports the main idea. The student has a clear organizational accurate, and direct reference to the texts (" 'fewer than five hundred breeding pairs of bald eagles were left in the lower forty-eight states,' " "a lowa Alcoa plant set up a webcam," and "CenterPoint" effectively used to explain the topic. The response is free of convention errors. hatched there for release into the wild," "for the first time in 100 years," and " 'raptor guards' ") is transitions to link ideas, ideas grouped in a logical order, and a conclusion related to the main idea structure that effectively supports the focus and ideas, including an effective introduction, Energy and the Houston Audobon are developing ways to put 'raptor guards' on the power lines") people raised eagle chicks to be set free") from the texts, effectively supporting the main idea eagle on the Endangered Species List" and "the Patuxent Wildlife Research Center in Maryland, of the texts. The student analyzes explicit and implicit meanings ("The government also put the The response effectively addresses all parts of the task, demonstrating an in-depth understanding ("Many different people have taken action to help the bald eagle increase in numbers"). Substantial,

E05.E.1.1 Response Score: 4

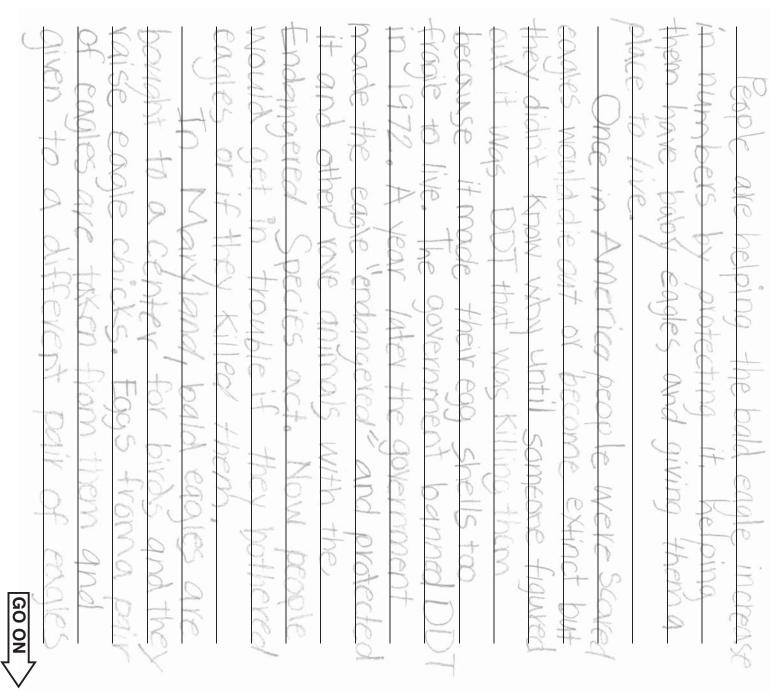
all three passages to support your response analyzing how people are helping the bald eagle increase in numbers. Use information from The passages discuss the impact that people have had on the bald eagle. Write an essay

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understanding of the texts. The student analyzes explicit and implicit meanings ("the pesticide DDT and "alot"), usage ("eagles who" instead of eagles that), and capitalization ("Because"); however, explain the topic and convey events. There are errors in spelling ("evenchualy," "baby's" for babies, food chain," "they let 124 of the eagles go in the wild," and " 'raptor guards' ") is effectively used to main idea and purpose. Precise language drawn from the texts ("DDT was in the employs a strong organizational structure that effectively supports the writer's ideas, including an time in 100 years," and "people are putting up 'raptor guards'") supports the main idea. The student Substantial, accurate, and direct reference to the texts ("where they nest and kept people away," different people have done many different things to help the bald eagle increase in numbers"). are many many more eagles now") from the texts, effectively supporting the main idea ("Many are not rare any more," and "I'm sure there are alot more people helping eagles too because there these errors do not interfere with meaning. effective introduction, transitions, ideas grouped in a logical order, and a conclusion related to the "People raised eagle chicks to be let go in the wild in Maryland," "eagles in Chicago for the first was in the food chain and harming eagle's eggs, the government banned it," "Around the U.S. eagles The response effectively addresses all parts of the task, demonstrating an in-depth, analytic

E05.E.1.1 Response Score: 3

The passages discuss the impact that people have had on the bald eagle. Write an essay analyzing how people are helping the bald eagle increase in numbers. Use information from all three passages to support your response.



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BOOKLET AND TEST BOOKLET SO YOUR TEACHER WILL KNOW YOU ARE FINISHED. AFTER YOU HAVE CHECKED YOUR WORK, CLOSE YOUR ANSWER



transitions to link ideas in this response ("A year later," "Now people would," and "Don't worry an appropriate organizational structure consisting of a logical, chronological order of events from demonstrating sufficient understanding of the texts. The student analyzes both explicit and implicit "gaurds") are present; however, these do not interfere with meaning. though"). An error in grammar ("there's" for there are) and two spelling errors ("lectrocuted" and the texts, surrounded by a clear introduction and conclusion. There is an appropriate use of main idea. Clearer references to the main idea would strengthen the analysis. The student employs eagles [from electrocution]"), using relevant details, examples, and facts, is provided to support the birds and they raise eagle chicks," and "people in Texas are installing 'raptor gaurds' to protect the animals with the Endangered Species act," "In Maryland, bald eagles are b[r]ought to a center for banned DDT in 1972," "government made the eagle 'endangered' and protected it and other rare reference to the texts ("someone figured out it was DDT that was killing them," "The government numbers by protecting it, helping them have baby eagles and giving them a place to live"). Direct meanings from the texts to support the main idea ("People are helping the bald eagle increase in The response adequately analyzes how people are helping the bald eagle increase in numbers,

E05.E.1.1 Response Score: 3



all three passages to support your response analyzing how people are helping the bald eagle increase in numbers. Use information from The passages discuss the impact that people have had on the bald eagle. Write an essay

People help the bald eagles increase in numbers by trying to protect them and protect where they live

anyting to eagles. eagle protected on the Endangered Species act. This meant that nobody could do because the shells weren't hard enough so the government banned it and made the but noody knew why. Eventually they found out that DDT was killing baby eagles There were hardly eagles left in America and people thought they would be extinct

up, they let them go into the wild. That helped the eagles. from parents of one eagle and given to different parents to raise. When they growed Some people at a research center are helping to raise eagle chicks. Eggs are taken

shows that the eagles are increase in numbers. there is an eagle's nest there for the first time in over one hundred years! So that In the second passage, it says that there is a wilderness preserve near a big city and

many eagles like around lakes and where they have nests eagles from getting electrocuted. Other people are helping out where there are land on electrical power lines. People decided to put up guards to protect the Now that there are lots of eagles again, there's new problems like sometimes they

list anymore. That is how people have helped the bald eagles increase in numbers. Now eagles are not that endangered. They aren't even on the endangered species

of a logical, chronological order of events from the texts with a clear introductory statement and strengthen the analysis. The student employs an appropriate organizational structure consisting an eagle's nest there for the first time in over one hundred years") is provided in support of the main protected on the Endangered Species act," "there is a wilderness preserve near a big city and there is demonstrating sufficient understanding of the texts. The student analyzes explicit and implicit present do not interfere with meaning. conclusion. The response features errors in grammar ("growed" and "there's"); however, the errors idea. Additional and/or more specific, relevant details, examples, or quotes from the texts would baby eagles because the shells weren't hard enough so the government banned it," "made the eagle by trying to protect them and protect where they live"). Direct reference to the texts ("DDT was killing meanings from the texts to support the main idea ("People help the bald eagles increase in numbers The response adequately analyzes how people are helping the bald eagle increase in numbers,

E05.E.1.1 Response Score: 2

The passages discuss the impact that people have had on the bald eagle. Write an essay all three passages to support your response. analyzing how people are helping the bald eagle increase in numbers. Use information from

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spelling ("outlowed" and "poisin") that sometimes interfere with meaning. protected them from being extinct"). The response also has a weak organizational structure texts ("eagles were getting sick from poison and there were'nt very many left, so the government The response inconsistently addresses the task, demonstrating partial understanding of the texts. ("were'nt," "have'nt," "did'nt," and "wo'nt"), usage ("maid" for made and "buryers" for barriers), and to explain the topic ("Some people in Maryland"). The response contains errors in punctuation ("If they did'nt do that"). There is little use of precise language and vocabulary drawn from the texts including a simple introduction and an equally simple conclusion. Transitions are used inconsistently not be any eagles left except in a zoo"). There is weak reference to specific, relevant details from the There is weak analysis of the explicit meanings from the texts ("If people didn't [help] there might

E05.E.1.1 Response Score: 2



<u> 19.</u> all three passages to support your response analyzing how people are helping the bald eagle increase in numbers. Use information from The passages discuss the impact that people have had on the bald eagle. Write an essay

numbers eagles lose their babies. After the DDT wore off, eagles began to increase in numbers. One way people helped was by banning DDT. DDT is a poison that makes There were almost no eagles left until people helped bald eagles increase in

increase in numbers electric wires so companys are putting up guards to keep the eagles safe in bald eagle increase in numbers. In other places eagles are dying because they hit eagles that didn't have any so they could raise a family too. This also helped the and release them into the wild and they would give chicks from other eagles to Another way people helped was that in Maryland people would raise baby eagles

Now, eagles are back and people have helped the bald eagle increase in numbers

topic. The response contains an error in spelling ("companys" for companies). however, there is little use of precise language and vocabulary drawn from the texts to explain the response does feature transitions ("After the DDT wore off," "Another way," and "This also helped"); has a weak organizational structure with a simple introduction and a simplistic conclusion. The makes eagles lose their babies" and "in Maryland people would raise baby eagles"). The response the texts. There is weak reference to the main ideas and relevant details ("DDT is a poison that *people helped bald eagles increase in numbers"*). The response lacks specific, relevant details from There is weak analysis of explicit meanings from the texts ("There were almost no eagles left until The response inconsistently addresses the task, demonstrating partial understanding of the texts.

E05.E.1.1 Response Score: 1



all three passages to support your response analyzing how people are helping the bald eagle increase in numbers. Use information from The passages discuss the impact that people have had on the bald eagle. Write an essay

was a really big problem for bald eagles. Houston audobon and other bird an eagle. Those are ways that people are helping the bald eagle increase in awkward. Authorites can seek criminal prosecution under the law if someone hurts entusiasts Here are some ways that people are helping the bald eagle increase in numbers. numbers The bald eagle prefer frosted areas like rivers and lakes. At the Chicago Zoo DDT identify lines near nests for extera precautions. Young ones can be

organizational structure is present, including a lack of transitions to connect ideas. Although there various portions of the passages. There is a minimal introduction ("Here are some ways"), and to the texts are insufficient and often inaccurate ("At the Chicago Zoo DDT was a really big problem interfere with meaning. awkward"). Errors present in spelling ("entusiasts" and "Authorites"), and capitalization ("audobon") is some precise language drawn from the texts, it is employed haphazardly ("Young ones can be the conclusion is simplistic ("Those are ways that people are helping"). Minimal evidence of an for bald eagles"). Much of the response is composed of inaccurate fragments of ideas from the main idea is evident. The response fails to demonstrate a true analysis of the texts. References increase in numbers, demonstrating inadequate understanding of the texts. Minimal reference to The response minimally addresses the task of explaining how people are helping the bald eagle

E05.E.1.1 Response Score: 1

<u>19.</u> all three passages to support your response. The passages discuss the impact that people have had on the bald eagle. Write an essay analyzing how people are helping the bald eagle increase in numbers. Use information from

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INCICASE IN NUMBER	eagles thanks to people helping build eagle	Chales any more and now there are a lot of	the couple endongered so people couldn't b	illing the buby eagles. Then the covernment much	government stopped making the poison that was	One way people are helping build acoles is to
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endangered"). Minimal evidence of an organizational structure is present. The response is free of and/or confused ("the government stopped making the poison" and "the government made the eagle simplistic ("now there are a lot of eagles thanks to people"). References to the texts are insufficient demonstrate a true analysis of the texts. There is no introductory statement, and the conclusion is increase in numbers. Minimal reference to the main idea is evident, and the response does not convention errors. The response minimally addresses the task of explaining how people are helping the bald eagle

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PASSAGE 3

Read the following passage about Anita Roddick. Then answer questions 20-29

Anita Roddick Founder of The Body Shop

by Krista McLuskey

Early Years

which was not well known in England at that time. Suddenly, the café became very popular. Anita living in the United States. It was complete with pinball machines, a jukebox, and Coca-Cola, realized that the atmosphere in a business can make it successful. father, Henry, turned the Clifton Café into an American-style diner like the ones he had seen while Anita was born in Littlehampton, England, where her parents owned the Clifton Café. Anita's

was completing her education. After finishing secondary school, she attended a teacher training expected to work there after school and on weekends to help support the family. Meanwhile, Anita college in the city of Bath. When Anita was about ten years old, her mother took over the café. All the children were

Developing Skills

After graduating, Anita decided she wanted some adventure in her life. She traveled to Tahiti, New Hebrides, Australia, Madagascar, New Caledonia, and South Africa. In these places, Anita found they worked better than the products she used back in England. watched the local women use natural products to clean their skin and hair. She tried them and

Argentina, to New York City. Although Anita was not thrilled at this prospect, she knew that it was his dream. She had to plan how to support herself and the children while Gordon was away. She decided to run a little shop that would be open only from 9 A.M. to 5 P.M. so that she could spend two daughters. Anita and Gordon worked hard running a hotel and restaurant. One day, Gannounced that he wanted to take two years off to ride on horseback from Buenos Aires, time with her daughters After Anita returned to England, she met and married Gordon Roddick, with whom she had Gordon

Anita decided that it would be a cosmetics shop selling products made from only natural ingredients. During her travels, she had seen how effective natural products were. She had noticed that women in those hot countries had silky smooth skin even though they were in the sun all the time.

industry. Anita rented a store in Brighton, 20 miles (33 kilometers) from Littlehampton. She painted it made £130 the first day. chemist not to test the products on animals, even though that is normal practice in the cosmetics the inside dark green to hide stains on the walls. In March 1976, the first Body Shop opened, and After getting a £14,000 bank loan, Anita hired a chemist to develop the cosmetics. She told the

Anita had only twenty-five products to sell. To fill the space in the shop, she packaged each product in five different sizes. She bought the cheapest containers she could find. Since she could this way, Anita began recycling before it was commonly done. not afford very many bottles, she asked customers to bring in their own to fill them in the store. In

trail of perfume down the street leading to the store to tempt people to come inside. She hung dried flowers from the ceiling and put bowls of scented potpourri on the counters Anita used unusual marketing tactics. To get customers into The Body Shop, she sprayed a

Accomplishments

the shop in return for half of the business. Gordon, her money, so she teamed up with a partner who paid to set up in a nearby town. The bank refused to lend her any more bottling the products and taking care of the finances husband, returned from his travels and began to help by Within a year, Anita decided to open a second Body Shop

them about skin and hair care, and about all the ingredients one in England and one in Brussels, Belgium. Anita and Gordon agreed because this was a way of expanding the business. The first Body Shop franchises opened in 1978, in the products Gordon always trained the new Body Shop owners, teaching Body Shop stores with products supplied by her. Anita and Soon, people came to Anita wanting to open their own

peppermint lotion to soothe sore feet after several people, who had run a race, came into the store asking for foot lotion. franchises increased. Meanwhile, Anita invented new products whenever she saw a need. She created a During the next few years, the number of stores and

shops in England and fifty-two shops in other countries. So many shares sold the first day on the stock market that shares on the stock market. By this time, they had thirty-eight overnight Anita and Gordon were millionaires In 1984, Anita and Gordon decided to sell Body Shop

Stock Market

shareholders if the company divided among the owners of company, and the profits are people own small parts of the company is sold like this, many companies. When stock in a people buy and sell shares in market, which is the place where stock to the public. Shares are extra money to expand its sections, called shares. One company divided into equal Stock is the financial worth of a does not make a profit. have to answer to their lose some control because they these shares. The original owners sold to the public on the stock business, it sometimes sells its company. If a company needs person can own all the stock in a

 $^{^{1}}$ E-symbol for the pound sterling, the official currency of the United Kingdom, which includes England

against the overhunting of whales. She put up posters in her shops and stickers on her bottles saying "Save the whales." She also supported recycling and efforts to preserve the rain forest. was trying to prevent hazardous waste from being dumped in the ocean. Next, she campaigned her community and the environment. She began by sponsoring posters for Greenpeace, which on human rights and environmental issues, such as protecting endangered species. Body Shop delivery trucks became billboards for Anita's various causes. Her campaigns focused Anita began thinking about the social responsibility that the business had. She wanted to help

forty-six countries Anita's business continues to grow. Today, The Body Shop has approximately 1,500 stores in

Key Events

- 1976 Roddick opens the first Body Shop in Brighton, England, and a second one in Chichester.
- 1978 The first franchise of The Body Shop opens.
- 1984 The Body Shop goes public, selling shares on the stock market
- 1986 The Body Shop; Roddick is named London's Businesswoman of the Year. Roddick establishes an Environmental Projects' Department of
- 1987 The Body Shop is named Company of the Year by the Confederation of British Industries.
- **1988** The first Body Shop in the United States opens.

MULTIPLE-CHOICE QUESTIONS

E05.B-C.3.1.1

20. Read the sentence from the passage

"During her travels, she had seen how effective natural products were."

Which evidence from the passage best supports the author's point in the sentence?

- ⋋ Roddick trained new store owners about the ingredients in her products
- $\overline{\omega}$ The women in hot countries had beautiful skin even though they were often in the sun.
- Ω Roddick used a bank loan to hire a chemist to develop her cosmetics
- D Local women used natural products on their skin and hair.

detail that relates to the topic of the author's point but does not directly support it. their skin from the harsh effects of the sun. Options A and C do not relate to the author's point. Option D is a sentence from the passage. Option B is the correct answer. The natural products that the women used protected The student is asked to determine evidence from the passage that best supports the author's point given in a

E05.B-V.4.1.1

21. Read the sentences from the passage.

"Anita used unusual marketing tactics. To get customers into The Body Shop, she sprayed a trail of perfume down the street leading to the store to tempt people to come inside."

What does tactics mean?

- A. adventures
- B. rules
- C. slogans
- D. ideas

reader that "ideas" is the meaning of "tactics." Options A, B, and C do not make sense in the context of the sentence that gives an example of how Anita sprayed perfume to get people to come inside her store clues the The student is asked to determine the meaning of the word "tactics." Option D is the correct answer. The

E05.B-C.3.1.3

- 22. Why is the information in the text box "Stock Market" included in the passage?
- to show how owning a high number of Body Shops relates to the stock market
- $\overline{\omega}$ to explain why so many Body Shop shares sold the first day on the stock market
- \mathcal{C} to show why selling shares on the stock market was profitable for the Roddicks
- O. to explain what it means that the Roddicks sold Body Shop shares on the stock market

Option D is the correct answer. The text box explains what shares are so that the reader can understand the supported by information in the text box. meaning of the Roddicks selling shares of their company on the stock market. Options A, B, and C are not The student is asked to determine why the information in the text box "Stock Market" is included in the passage.

E05.B-V.4.1.2

- 23. Which word is a synonym for expanding?
- A. growing
- B. observing
- C. planning
- D. searching

are not supported by the context. "growing" means the same as "expanding" and makes sense in the context of the passage. Options B, C, and D The student is asked to identify the synonym for the word "expanding." Option A is the correct answer since

E05.B-V.4.1.2

- 24. Which word is an antonym for soothe?
- A. relax
- B. imitate
- C. agitate
- D. transform

supported by the context of the passage. "agitate" means the opposite of "soothe." Option A is a synonym for "soothe." Options B and D are not The student is asked to identify the antonym for the word "soothe." Option C is the correct answer since

E05.B-C.3.1.1

- **25**. Which sentence from the passage best shows a reason for Roddick's decision to try to preserve the rain forest?
- ⋗ "Anita invented new products whenever she saw a need."
- $\overline{\omega}$ "Anita began thinking about the social responsibility that the business had."
- Ω "Next, she campaigned against the overhunting of whales."
- D. "Body Shop delivery trucks became billboards for Anita's various causes."

Option D is a detail that supports how Roddick used her business to showcase the causes she supported. business. Option C is an example of how Roddick implemented her belief in the social responsibility of business. different causes, such as preserving the rain forest. Option A does not relate to the social responsibility oj the correct answer since it was Roddick's belief that business has a social responsibility that led her to support The student is asked to determine the reason for Roddick's decision to try to preserve the rain forest. Option B is

E05.B-K.1.1.1

- 26. Which sentence about Gordon best shows that he supported Anita's business endeavor?
- "... began to help by bottling the products and taking care of the finances."
- $\overline{\omega}$ business." "... she teamed up with a partner who paid to set up the shop in return for half of the
- \mathcal{O} ... Anita and Gordon decided to sell Body Shop shares on the stock market."
- D. "... overnight Anita and Gordon were millionaires."

Gordon, but they do not explain how Gordon supported Anita's business. Gordon helped Anita with her business. Option B does not relate to Gordon at all. Options C and D relate to Gordon supported Anita's business endeavor. Option A is the correct answer since this sentence shows how The student is asked to identify the sentence from the passage that best supports the given inference that

E05.B-C.3.1.3

- 27. What connection do the details in the text box "Key Events" have with the information in the passage?
- ⋗ They provide further information about Anita's career.
- B. They offer information about Anita's family life.
- C. They summarize the facts given in the passage
- D They give a detailed explanation for the events in the passage.

correct since no detailed explanation is given with the events listed in the text box is not correct since some of the facts given are in addition to the facts provided in the passage. Option D is not passage. Option B is not correct since the events listed are not associated with Anita's personal life. Option C is the correct answer since the information in the text box does have some events that are not listed in the The student is asked to make a connection between the information in the text box and the passage. Option A

SELECTED-RESPONSE QUESTION

E05.B-K.1.1.2

28. This question has two parts. Answer Part One and then answer Part Two.

Part One

Which sentence contains two main ideas of the passage?

- ⋋ Roddick traveled around the world, and she observed women using natural products on their skin and hair.
- ̈ Roddick married Gordon, and they ran a hotel and restaurant
- Ω Roddick used her knowledge to create a product line, and she used marketing strategies to develop a business.
- Ō Roddick supported herself and her children, and she opened a small shop in Brighton.

Part IWO

What two details from the passage support the answer in Part One? Choose two answers

- ⋗ "Anita decided that it would be a cosmetics shop selling products made from only natural ingredients."
- $\overline{\omega}$ "She had to plan how to support herself and the children while Gordon was away."
- Ω "She told the chemist not to test the products on animals...
- D. "To get customers into The Body Shop, she sprayed a trail of perfume down the street leading to the store to tempt people to come inside."
- Ш "... Anita watched the local women use natural products to clean their skin and hair."

support those ideas. The student is asked to determine the two main ideas of the passage and to select details from the passage that

her business and how she made it a success. Options A, B, and D are details from the passage and not the Part One: Option C is the correct answer since the passage discusses how Roddick came up with the idea for

relates to why Roddick had to create a business. Option C is a detail that supports her belief in helping the Part Two: Options A and D are the correct answers since they support the main ideas from Part One. Option B environment. Option E is a detail that supports the idea that Roddick learned much during her travels.

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TEXT-DEPENDENT ANALYSIS QUESTION

E05.E.1.1

Anita Roddick had many achievements throughout her life. Write an essay analyzing how your response. Anita's family was important to her success. Use information from the passage to support

Text-Dependent Analysis Question Writer's Checklist for the

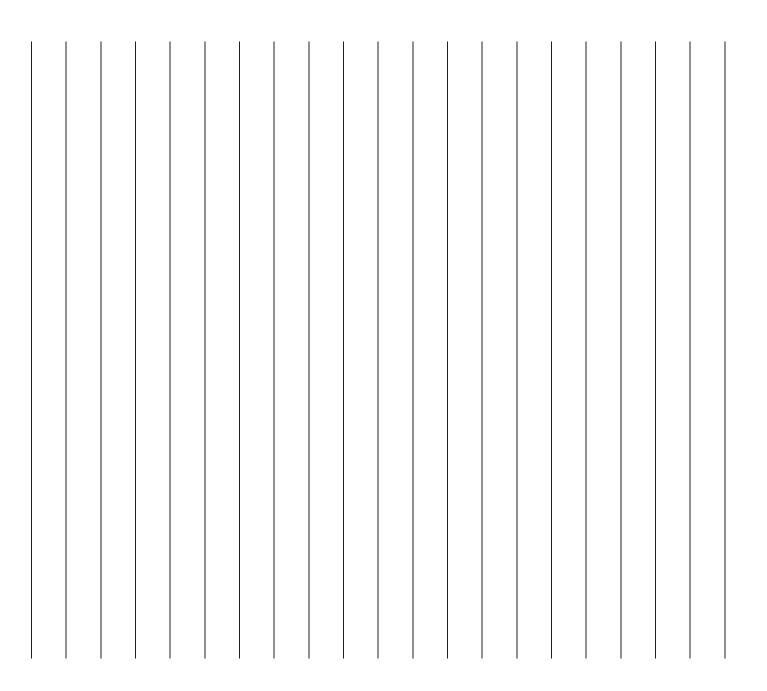
PLAN before you write

- Make sure you read the question carefully.
- Make sure you have read the entire passage carefully.
- Think about how the question relates to the passage.
- outline, or other graphic organizer to plan your essay. Organize your ideas on scratch paper. Use a thought map,

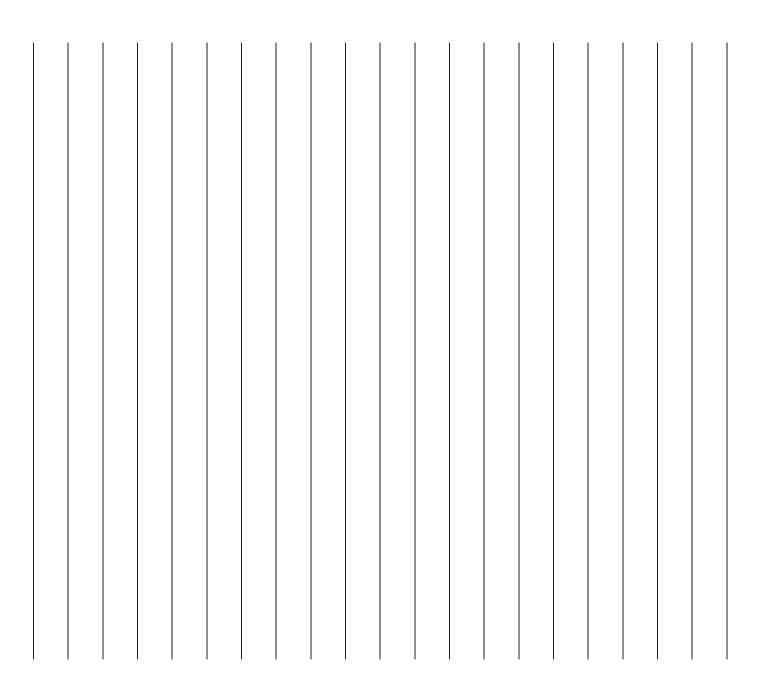
FOCUS while you write

- Analyze the information from the passage as you write your essay.
- Make sure you use evidence from the passage to support your response
- Use precise language, a variety of sentence types, and transitions in your essay.
- Organize your paper with an introduction, body, and conclusion.

PROOFREAD after you write









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AFTER YOU HAVE CHECKED YOUR WORK, CLOSE YOUR ANSWER BOOKLET AND TEST BOOKLET SO YOUR TEACHER WILL KNOW

YOU ARE FINISHED.

TEXT-DEPENDENT ANALYSIS QUESTION SCORING GUIDELINE

Question #29

Assessment Anchor:

E05.E.1—Evidence-Based Analysis of Text

Specific Assessment Anchor Descriptor addressed by this item:

E05.E.1.1-Draw evidence from literary or informational texts to support analysis, reflection, and research.

 Effectively addresses all parts of the text(s) Effective introduction, development, controlling idea related to the text(s) Strong organizational structure that on the text of the tex	Effectively addresses all parts of the task demonstrating in-depth analytic understanding of the text(s) Effective introduction, development, and conclusion identifying an opinion, topic, or controlling idea related to the text(s) Strong organizational structure that effectively supports the focus and ideas Thorough analysis of explicit and implicit meanings from text(s) to effectively support claims, opinions, ideas, and inferences Substantial, accurate, and direct reference to the text(s) using relevant key details, examples, quotes, facts, and/or definitions Substantial reference to the main idea(s) and relevant key details of the text(s) to support the
• • •	pment, and conclusion identifying an opinion, topic, or etext(s) re that effectively supports the focus and ideas and implicit meanings from text(s) to effectively support claims, es es ect reference to the text(s) using relevant key details, examples, ons main idea(s) and relevant key details of the text(s) to support the
• •	and implicit meanings from text(s) to effectively support claims, es ect reference to the text(s) using relevant key details, examples, ons main idea(s) and relevant key details of the text(s) to support the
•	ect reference to the text(s) using relevant key details, examples, ons
	nain idea(s) and relevant kev details of the text(s) to support the
Substantial reference to the	
 writer's purpose Skillful use of transitions to link ideas 	nk ideas
 Effective use of precise langu 	Effective use of precise language and domain-specific vocabulary drawn from the text(s) to
explain the topic and/or to convey experiences/events	explain the topic and/or to convey experiences/events
and punctuation; errors pres	and punctuation; errors present do not interfere with meaning
 Adequately addresses all par text(s) 	Adequately addresses all parts of the task demonstrating sufficient understanding of the text(s)
 Clear introduction, developm idea related to the text(s) 	Clear introduction, development, and conclusion identifying an opinion, topic, or controlling idea related to the text(s)
Appropriate organizational st	Appropriate organizational structure that adequately supports the focus and ideas
Clear analysis of explicit and information	Clear analysis of explicit and implicit meanings from text(s) to support claims, opinions, ideas, and inferences
Sufficient, accurate, and dire	Sufficient, accurate, and direct reference to the text(s) using relevant details, examples,
writer's purpose	writer's purpose
 Appropriate use of transitions to link ideas 	s to link ideas
 Appropriate use of precise la 	Appropriate use of precise language and domain-specific vocabulary drawn from the text(s) to
explain the topic and/or to convey experiences/events	The second secon
 Some errors may be present in sentence formation, grammar, usage, spelling, capitalization, 	onvey experiences/events

Non- Scorables ILResponse in a language other than English ILIllegible
and punctuation; errors present in sentence formation, grammar, usage, spelling, capitalization, and punctuation; errors present often interfere with meaning BLK (blank) No response or written refusal to respond or too brief to determine response
• Little or no use of precise language or domain-specific vocabulary drawn from the text(s)
Few, if any, transitions to link ideas
definitions
 Insufficient reference to the text(s) using few details, examples, quotes, facts, and/or
• Insufficient or no analysis of the text(s); may or may not support claims, opinions, ideas, and
 Minimal evidence of an organizational structure
 Minimal evidence of an introduction, development, and/or conclusion
 Minimally addresses part(s) of the task demonstrating inadequate understanding of the text(s)
punctuation; errors present may interfere with meaning
 Errors may be present in sentence formation, grammar, usage, spelling, capitalization, and
explain the topic and/or to convey experiences/events
 Inconsistent use of precise language and domain-specific vocabulary drawn from the text(s) to
 Inconsistent use of transitions to link ideas
• Weak reference to the main idea(s) and relevant details of the text(s) to support the writer's
2 • Vague reference to the text(s) using some details, examples, quotes, facts, and/or definitions
supports claims, opinions, ideas, and inferences
 Weak or inconsistent analysis of explicit and/or implicit meanings from text(s) that somewhat
 Weak organizational structure that inconsistently supports the focus and ideas
controlling idea somewhat related to the text(s)
 Weak introduction, development, and/or conclusion identifying an opinion, topic, or
 Inconsistently addresses some parts of the task demonstrating partial understanding of the
FOIIIC
Score

TEXT-DEPENDENT ANALYSIS QUESTION STUDENT RESPONSES

E05.E.1.1 Response Score: 4

Anita Roddick had many achievements throughout her life. Write an essay analyzing how your response. Anita's family was important to her success. Use information from the passage to support

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punctuation error (missing comma following the word "Later" at the end of the second paragraph) grouped in a logical order, and a conclusion related to the main idea and purpose. Precise language organizational structure that effectively supports the focus, including an effective introduction, ideas products and run the finances of their business") supports the main idea. The student has a strong the text, effectively supporting the main idea ("they served as role models and as support for her in of the text. The student analyzes both explicit and implicit meanings ("Anita had learned from her however, these errors do not interfere with meaning. and an error in sentence formation (an overly coordinated sentence in the middle of the response); ("American-style diner" and "a trail of perfume") is effectively used to explain the topic. There is a "Within a year, she opened another shop and husband returned from his travels to help her bottle her that to her"; "She and her husband Gordon worked together and ran a hotel and a restaurant"; and of a business is very important to helping it be a success. Her father's American-style diner proved later business dealings"). Substantial, accurate, and direct reference to the text ("the atmosphere father about unusual marketing" and "at her father's café \dots Anita learned about pitching in") from The response effectively addresses all parts of the task, demonstrating an in-depth understanding

E05.E.1.1 Response Score: 4



29. Anita Roddick had many achievements throughout her life. Write an essay analyzing how your response Anita's family was important to her success. Use information from the passage to support

and supported her decisions. Anita Roddick's family was important to her success because they taught her things

success." She also worked there when her mother took over the café. "Anita realized that the atmosphere in a business is very important to helping it be a Anita worked at her father's café when she was young. The café was successful and

like her dad's café, but it was really to hide stains on the wall. make money by herself, so she opened a store to sell the types of products she had women in England. Because her husband wanted to go on a long trip, Anita had to wanted to use them also because she thought these women looked better than products on their skin and noticed they looked good even in hot, sunny places. She After she graduated and went around the world, Anita saw woman using natural learned about while travelling. She painted the store green to give it "atmosphere"

travels he helped her run the business and handled the finances of their business. opening because the products were so good. When her husband returned from his successful that she opened another shop. Soon more and more stores were store because she knew about "unusual marketing tactics." Soon she was so In order to attract customers she would spray a trail of perfume to follow to her

market and became millionaires overnight. Because of her family, Anita's business grew and grew until they sold it on the stock

of the text. The student analyzes explicit and implicit meanings from the text (" 'Anita realized that formation, grammar, usage, spelling, capitalization, or punctuation that interfere with meaning marketing tactics' ") is effectively used to explain the topic. There are no errors in sentence language drawn from the text (" 'atmosphere in a business,' " "hot, sunny places" and " 'unusual the focus. The introduction, development, and conclusion effectively support the topic. Precise *tactics"*) is evident. The response employs a strong organizational structure that effectively supports would spray a trail of perfume to follow to her store because she knew about 'unusual marketing hot, sunny places," "She painted the store green to give it 'atmosphere' like her dad's café," and "she text ("Anita saw woman using natural products on their skin and noticed they looked good even in were sources of information as well as helpers). Substantial, accurate, and direct reference to the things and supported her decisions"), effectively supporting the main idea (that her family members the atmosphere in a business is very important to helping it be a success' " and "they taught her This response effectively addresses all parts of the task, demonstrating an in-depth understanding

E05.E.1.1 Response Score: 3



29. Anita Roddick had many achievements throughout her life. Write an essay analyzing how Anita's family was important to her success. Use information from the passage to support your response.

sold shares in their store and got rich. That's how Anita's family was important to work hard to support her kids. After her store was successful, Anita and Gordon restaurant. This tells me her family (husband) helped her with the business. But he passage it says that she and her husband worked hard running a hotel and left for two years which is why she opened the Body Shop, and why she had to And he taught her that a good "atmosphere" can make a business successful. In the Anita's family was very important to her success. It is important because she her success learned how to run a business when her father had a café when she was young.

of transitions to link ideas in this response ("This tells me," "But he left for two years," and "After her consisting of a logical, chronological order of events from the passage. There is an appropriate use quotes would strengthen the analysis. The student employs an appropriate organizational structure and restaurant") is provided to support the analysis. Additional relevant details, examples, or make a business successful" and "it says that she and her husband worked hard running a hotel support the main idea. Direct reference to the text ("he taught her that a good 'atmosphere' can demonstrating sufficient understanding of the text. The student analyzes both explicit and implicit the middle of the response); however, it does not interfere with meaning store was successful"). An error is present in sentence formation (an overly coordinated sentence in meanings from the text ("she learned how to run a business when her father had a cafe") to The response adequately analyzes how Anita Roddick's family was important to her success,

E05.E.1.1 Response Score: 3

29. Anita Roddick had many achievements throughout her life. Write an essay analyzing how your response. Anita's family was important to her success. Use information from the passage to support

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is a millionaire,

of events from the passage. There is appropriate use of transitions to connect ideas ("Also working student employs an appropriate organizational structure consisting of a logical, chronological order she only was open during the day so she could spend time with her children") supports the analysis; atmosphere in a business can make it successful' " and "when Anita had to run a business by herself, about hard work and good ideas") to support the main idea. Direct reference to the text (" 'the meanings from the text ("How Anita's family was important to her success is that they taught her demonstrating sufficient understanding of the text. The student analyzes both explicit and implicit at the cafe"). Minor errors, such as missing commas, do not interfere with meaning. however, additional relevant details, examples, or quotes would further strengthen the analysis. The This response adequately analyzes how Anita Roddick's family was important to her success,

AFTER YOU HAVE CHECKED YOUR WORK, CLOSE YOUR ANSWER BOOKLET AND TEST BOOKLET SO YOUR TEACHER WILL KNOW YOU ARE FINISHED.



E05.E.1.1 Response Score: 2

29. Anita Roddick had many achievements throughout her life. Write an essay analyzing how your response. Anita's family was important to her success. Use information from the passage to support

53

effective conclusion. Transitions are used inconsistently ("When she got married" and "Because they overall, has a weak organizational structure with a simple introduction and an only somewhat supports ideas and inferences. The response lacks relevant, key details from the text. There is weak and her mom did too after she took over the café" and "Gordon did the money part") that somewhat sometimes interfere with meaning. explain the topic. The response contains some errors in spelling ("cozmedics" and "evenchully") that were so good at it"). There is little use of precise language and vocabulary drawn from the text to reference to the main ideas ("they got more stores and evenchully became rich"). The response, There is weak analysis of explicit meanings from the text ("dad taught her how to run a restaurant The response inconsistently addresses the task, demonstrating partial understanding of the text.



E05.E.1.1 Response Score: 2



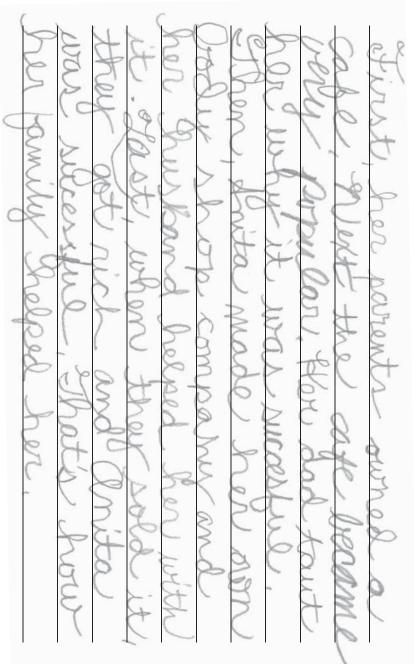
29. Anita Roddick had many achievements throughout her life. Write an essay analyzing how Anita's family was important to her success. Use information from the passage to support your response.

again. Then, when Anita wanted to make The Body Shop, her husband helped her it was sold on the stock market, it was worth a million dollars. Without her family to with the money. The business grew and had 1,500 stores in 46 countries and when Next, she and her husband also had a café. So she was working with her family Have you ever had a family member help you be successful? Anita Roddick did. help her, Anita might not have been successful. First, her mom and dad let her work in their successful café, she learned a lot there

of precise language and vocabulary drawn from the text ("The Body Shop" and "1,500 stores in 46 supports the focus. Transitions used are simplistic ("First," "Next," and "Then"). There is some use the writer's purpose. The response has a weak organizational structure incorporating a simple countries"). The response is free of convention errors that could impede meaning introduction and a somewhat effective conclusion. The organizational structure inconsistently *countries"* and *"when it was sold on the stock market, it was worth a million dollars") to support* weak reference to the main ideas and relevant details ("business grew and had 1,500 stores in 46 successful café, she learned a lot there") that somewhat supports ideas and inferences. There is There is weak analysis of explicit meanings from the text (*"her mom and dad let her work in their* This response inconsistently addresses the task, demonstrating partial understanding of the text.

E05.E.1.1 Response Score: 1

29. Anita Roddick had many achievements throughout her life. Write an essay analyzing how your response. Anita's family was important to her success. Use information from the passage to support



success (the vague notion that Anita's Body Shop in some way emulated her parents' café). Minimal do not clearly link ideas. There is little use of precise language drawn from the text. Although the response employs some simplistic transitions ("First," "Next," "Then," and "Last"), they References to the text are insufficient. Minimal evidence of an organizational structure is present. text. There is minimal evidence of an introduction or development, and the conclusion is simplistic. reference to the main idea is evident, and the response does not demonstrate any analysis of the The response minimally addresses the task of analyzing how Anita's family was important to her



E05.E.1.1 Response Score: 1

29. Anita Roddick had many achievements throughout her life. Write an essay analyzing how your response. Anita's family was important to her success. Use information from the passage to support

and they were MILLIANAIRES!	full and opened up alot more	spened a store of her own. They	stand helped for when Anita	there. When she older her hu-	popular. All the children work	family restraunt and it was very	Anita grew up working at her
were M	store	store of	elped h	hen she	All the	estraunt	M dy Ma
LIONAIR	up alot in	her own	or when	older her	children	and it w	orking at
	ess-	TRY	Anita	hu-	MOYK	as very	her

and "When she older") that interfere with meaning. formation (first and last sentences are overly long/confusing) and usage ("All the children work there" text are insufficient, and there is little vocabulary drawn from the text. There are errors in sentence the overall organizational structure is simplistic. Development is minimal at best. References to the does not demonstrate analysis. There is minimal evidence of an introduction or conclusion, and the success of her parents' café). Minimal reference to the main idea is evident, and the response success (the vague notion that the success of The Body Shop was, in some ways, a reflection on The response minimally addresses the task of analyzing how Anita's family was important to her

Acknowledgements

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Section 2

Directions:

On the following pages are the Language questions and the writing prompts

Directions for Multiple-Choice Questions:

Each question will ask you to select an answer from among four choices.

For the multiple-choice questions:

- Read each question and choose the best answer.
- Only one of the answers provided is correct.
- Record your choice in the answer booklet.

Directions for the Writing Prompt:

- your response. Review the Writer's Checklist to help you plan and organize
- Read the writing prompt carefully.
- Write your response in the appropriate space in the answer booklet.

STANDALONE MULTIPLE-CHOICE QUESTIONS

E05.D.1.1.1

30. Read the sentence.

eating. After we sat down for dinner, we then passed the dishes of food around the table before

Which underlined word functions as a conjunction in the sentence?

- A. After
- B. for
- C. then
- D. before

sentence. Option A is the correct answer since "After" functions as a subordinating conjunction in the sentence. Option B, "for," and option D, "before," function as prepositions in the sentence. Option C, an adverb. The student is asked to analyze the underlined words to determine which word functions as a conjunction in the "then," functions as

E05.D.1.1.2

- 31. Which underlined verb or verb phrase is **not** used correctly?
- ⋗ Mark completed his chores before the basketball game
- $\bar{\omega}$ Hannah had pedaled her bike faster as she rides down the hill.
- <u>റ</u> I will have made seven hats for my friends by the end of the month.
- D He has improved at playing soccer because he practices every morning

the rest of the sentence ("as she rides down the hill"). In option A, the verb "completed" correctly reflects the option D, the verb phrase "has improved" is used correctly. tense of the sentence. Likewise, the verb phrase in option C reflects the correct perfect tense in the sentence. In correctly. Option B is the correct answer since the verb phrase "had pedaled" does not match the tense of The student is asked to analyze each sentence to determine which underlined verb or verb phrase is not used

E05.D.1.1.3

- 32. Read the paragraph.
- (1) The Commonwealth of Pennsylvania encourages citizens to plant rain gardens.
- (2) Rain gardens capture storm water so that the water does not flow into storm drains.
- might even have attracted birds and butterflies. gardens. (4) If you use native plants in your rain garden, it will be easy to take care of and (3) Existing low spots or shallow pits lined with gravel make ideal locations for rain

Which sentence in the paragraph has an error?

- A. sentence 1
- B. sentence 2
- C. sentence 3
- D. sentence 4

("Existing," "shallow," "gravel," and "ideal") to determine that it is written correctly. is also written correctly. The student needs to review sentence 3 for subject-verb agreement and spelling verb. Likewise, the student needs to apply knowledge about verbs and commas to determine that sentence 2 is written correctly, the student needs to apply capitalization rules and evaluate the tense and agreement of the is a verb tense error in sentence 4 ("have attracted" should be "attract"). In order to determine that sentence 1 mistake in spelling, capitalization, punctuation, grammar, or usage. Option D is the correct answer since there The student is asked to analyze the paragraph to determine which sentence has an error. The error could be a

E05.D.1.1.4

33. Read the sentence

ticket at home. When Alex arrived at the theater and entered the building, he remembered that he left his

Which part of the sentence has an error in verb tense?

- A. When Alex arrived at the theater
- B. and entered the building,
- C. he remembered that
- D. he left his ticket at home

Option D is the correct answer since "left" should be "had left" (leaving the ticket at home occurred before Alex correctly. arrived at the theater). The verb tenses in options A ("arrived"), B ("entered"), and C ("remembered") are used The student is asked to analyze the sentence to determine which part of the sentence has an error in verb tense.

E05.D.1.1.5

34. Read the sentence.

on my homework When I entered the fifth grade, I concluded that I would not only have to spend more time plan my study time better.

Which word or words correctly complete the sentence?

- A. or
- B. nor
- C. but also
- D. and also

correlative conjunction "not only." Option C is the correct answer because "but also" is part of the correlative sentence. Students may think that options A, B, and D are correct answers because each of them is a conjunction conjunction "not only." that may seem to complete the sentence; however, they are incorrect because they are not part of the Students are asked to review each answer option to determine which word or words correctly complete the

E05.D.1.1.8

- 35. Read the paragraph.
- play the trombone because he has a cousin who played it last year. (3) Mark's friend Jill teaching new students. instrument. (4) The band teacher is happy that Mark and Jill want to join because she likes is thinking about joining the band, too, and playing the trumpet because it is her favorite (1) Mark loves music, so they want to join the school band next year. (2) Mark wants to

Which sentence has a pronoun-antecedent agreement error?

- A. sentence 1
- B. sentence 2
- C. sentence 3
- D. sentence 4

subject "Mark." In option C, the student needs to check that the pronoun "her" matches the subject "Jill." In be "he" since the subject is "Mark"). In option B, the student has to check that the pronoun "he" matches the agreement error. Option A is the correct answer since it contains a pronoun-antecedent error ("they" should option D, the student needs to check that the pronoun "she" matches the subject "the band teacher." The student is asked to analyze the paragraph to determine which sentence has a pronoun-antecedent

E05.D.1.2.2

36. Read the sentence

Since Erica wanted to go with us she had to get ready in a hurry.

Where should a comma be added to correct the error?

- A. after Since
- B. after wanted
- C. after us
- D. after ready

from the rest of the sentence. The student may want to add a comma after "Since" in option A because it is a an extra pause for emphasis. transition word. The student may want to add a comma after "wanted" in option B or "ready" in option D to add Option C is the correct answer since a comma should be placed after "us" to separate the introductory phrase The student is asked to evaluate the sentence to determine where a comma should be added to correct the error.

E05.D.1.2.3

- 37. Which sentence is punctuated correctly?
- ⋋ Ms. Johnson you are the person in charge of next month's meeting, aren't you?
- $\overline{\omega}$ Ms. Johnson, you are the person in charge of next month's meeting, aren't you?
- \mathcal{O} Ms. Johnson you are the person in charge of next month's meeting aren't you?
- D Ms. Johnson, you are the person in charge of next month's meeting aren't you?

is incorrect because it is missing a comma after "meeting." "Ms. Johnson." Option C is incorrect because it is missing commas after "Ms. Johnson" and "meeting." Option D the correct answer since it is punctuated correctly. Option A is incorrect because there should be a comma after The student is asked to evaluate each option to determine which sentence is punctuated correctly. Option B is

E05.D.1.2.1

38. Read the sentence.

batted in, and runs scored. Three statistics that all good baseball managers look at closely are batting average runs

After which word should a comma be added?

- A. statistics
- B. closely
- C. are
- D. average

the restrictive relative clause, and no comma is necessary. Option C, "are," is the verb of the sentence followed Students are asked to review the answer options to determine where a comma should be added. Students need to know how to use commas to separate items in a series. Option A, "statistics," is the subject of the sentence followed by a restrictive relative clause, and no comma is necessary. Option B, "closely," is an adverb that ends in the series. that is an item in a series of three or more nouns, and a comma is necessary to separate it from the other items by nouns that function as predicate nouns, and no comma is necessary. Option D, "average," is a predicate noun

E05.D.2.1.1

39. Read the sentences

Carly used to be uninterested in sports.

She now plays on a volleyball team.

Choose the **best** way to combine the two sentences.

- * * Carly, who used to be uninterested in sports, now plays on a volleyball team.
- $\bar{\omega}$ Carly used to be uninterested in sports, so now she plays on a volleyball team.
- \mathcal{O} Now that she plays on a volleyball team, Carly used to be uninterested in sports.
- D She now plays on a volleyball team, and Carly used to be uninterested in sports

sentences are combined in options B, C, and D are not as logical as the way the sentences are combined in option A. correct answer since it combines the sentences in a way that is the clearest and most concise. The ways the The student is asked to assess the two sentences to determine the best way to combine them. Option A is the

E05.D.2.1.2

40. Read the sentence.

After digging in the garden, Ben went inside to

Choose the most specific words to complete the sentence

- A. tidy himself up a bit
- *B. scrub his hands with soap and water
- C. clean up a huge mess
- D. wash a couple of things in the sink

Option B is the correct answer since it specifies exactly what Ben will do when he goes inside. Option A does not up. Option D does not specify what Ben will wash in the sink. list specific actions Ben will take to tidy himself up a bit. Option C does not specify what mess he is going to clean The student is asked to evaluate the options to determine the most specific words to complete the sentence.

E05.D.1.2.4

- 41. Which title should have quotation marks?
- * > We read the poem Paul Revere's Ride by Henry Wadsworth Longfellow in our history class
- $\overline{\omega}$ real-world subjects. DynaMath magazine makes mathematics meaningful by connecting math concepts to
- Ω The Phantom Tollbooth by Norton Jester is described by many children as "the best book
- D succeed in an academic contest. In E. L. Konigsburg's book The View from Saturday, four students use their brains to

options C and D, students need to know that underlining is used to indicate the title of a book. For the correct of works. For option B, students need to know that underlining is used to indicate the title of a magazine. For quotation marks. Students need to know how to use underlining, quotation marks, or italics to indicate titles answer, option A, students need to know quotation marks are used to indicate the title of a poem Students are asked to analyze each option to identify which one contains a title that should be punctuated with

Section 3

Prompts. **Directions:** On the following pages are the Opinion, Informative, and Narrative

Writer's Checklist for the Opinion Writing Prompt

PLAN before you write

- Make sure you understand what the prompt is asking you to do.
- Think about your task and your audience.
- Think about the topic, your opinion on that topic, and what you want to write.
- graphic organizer to plan your essay. Organize your ideas on scratch paper. Use a thought map, outline, or other

FOCUS while you write

- State your opinion on the topic.
- Support your opinion with details, examples, and reasons
- Use a variety of sentence types.
- Organize your paper with an introduction, body, and conclusion.
- Use transitions to connect your ideas.

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punctuation, and word choice	\square I corrected any errors in capitalization, spelling, sentence formation	\square I used reasons and examples to support my opinion.	\square I stayed focused on the topic.
	, sentence formation	nion.	

Opinion Writing Prompt

this prompt: You will have at least 30 minutes to plan, write, and proofread your response to

A group is starting a program that would allow students to travel to space. Some people think this is a good idea because it would be a hands-on learning experience. Others think that the educational opportunity is not worth the cost. Should students be allowed to travel to space?

Write an essay for your teacher that states your opinion about whether students should be allowed to travel to space and explains why. Be sure to use details and reasons to support your opinion.

Turn the page to begin writing your response.

If you need additional space, please continue on the next page.																USE NO. 2 PENCIL ONLY \
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GO ON																

Opinion Writing Prompt (continued) Final Copy	USE NO. 2 PENCIL ONLY \

After you have checked your work, close this test booklet so your teacher will know you are finished.



OPINION WRITING PROMPT—4-POINT MODE-SPECIFIC SCORING GUIDELINE

Assessment Anchor:

E05.C.1 Text Types and Purposes

Specific Eligible Content addressed by this prompt:

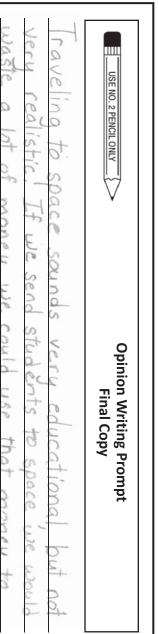
E05.C.1.1-Write opinion pieces on topics or texts, supporting a point of view with reasons and information.

Opinion Scoring Guidelines:

details Clear t Establi domai	Clear purpo Logica Adequ Suffici	task, reflection task,	Score Point
details Clear transitions that connect opinions and reasons Established and maintained formal style with appropriate control of language, domain-specific vocabulary, stylistic techniques, and sentence variety Adequate control of sentence formation	Clear opinion introduced, developed, and concluded with general awareness of task, purpose, and audience Logical order and organizational structure that support reasons and evidence Adequate and relevant content that demonstrates an understanding of the purpose Sufficient elaboration with clearly presented reasons that are supported with facts and	Sharp, distinct opinion introduced, developed, and concluded with evident awareness of task, purpose, and audience Effective order and organizational structure that support reasons and evidence Substantial and relevant content that demonstrates a clear understanding of the purpose Thorough elaboration with clearly presented reasons that are consistently supported with facts and details Effective transitions that connect opinions and reasons Established and consistently maintained formal style with effective control of language, domain-specific vocabulary, stylistic techniques, and sentence variety Consistent control of sentence formation Few errors may be present in grammar, usage, spelling, and punctuation; errors present do not interfere with meaning	Description

Score Point	Description
	Vague opinion introduced, developed, and concluded with limited awareness of task,
	 Inconsistent order and organizational structure that somewhat support reasons and
	 evidence Inadequate, vague content that demonstrates a weak understanding of the purpose
•	• Underdeveloped and/or repetitive elaboration that is inconsistently supported with facts
2	and details
	 Inconsistent/limited transitions that somewhat connect opinions and reasons
	 Inconsistently maintained formal style with limited control of language, domain-specific
	vocabulary, stylistic techniques, and sentence variety
	Inconsistent control of sentence formation
	Errors may be present in grammar, usage, spelling, and punctuation; errors present may
	Minimal evidence of an oninion introduced developed and concluded with little awareness.
	of task, purpose, and audience
	Minimal order and organizational structure
	 Minimal content that demonstrates little or no understanding of the purpose
_	 Undeveloped opinion with little support; may be a bare list
۲	 Minimal transitions that may or may not connect opinions and reasons
	Ineffective formal style with little control of language
	Many errors may be present in grammar, usage, spelling, and punctuation; errors present
	often interfere with meaning
	BLK (blank) No response or written refusal to respond or too brief to determine response
Non-	OTOff task/topic
scorables	LOEResponse in a language other than English

OPINION WRITING PROMPT STUDENT RESPONSES



Wha who 000 000

If you need additional space, please continue on the next page

GO ON

Response Score: 4 A sharp, distinct opinion is introduced ("Traveling to space sounds very educational, but not very realistic"). The writer employs an effective order as well as an organizational structure ("waste a lot of money, we could use that money to have a better sciene program, and we could send our kids to space camp"). Each of the reasons is thoroughly elaborated and consistently supported with facts and details ("If we send 100 students each kid is fifty thousand spend 5,000,000, "science book for every kid!" "more science materials," "put us in a simulator"). Stylistic techniques ("What school has that much money?") and audience awareness ("Let's use our money to make science class better.") are strong. Consistent control of sentence formation is demonstrated, and there are few errors in grammar, usage, spelling, and punctuation.
our money and not go to space.
USE NO. 2 PENCIL ONLY SOME Prompt (continued) Final Copy

PSSA Grade 5 ELA Preliminary Item and Scoring Sampler—January 2015

After you have checked your work, close this test booklet so your teacher will know you are finished.

If you need additional space, please continue on the next page.	be that that space travel for students is and the control to space will be big be that when the healthy to space will be healthy. The space of dealthy the healthy so think it have to be healthy so think it have to be healthy. Scence experiments. Rids will be able to make in space will be healthy. Scence experiments. Rids will be able to make in space and there will be healthy. Scence experiments and the the part of each the part of the part o	Opinion Writing Prompt Final Copy
GO ON	Seat Seat	

Response Score: 3

grammar, usage, spelling, and punctuation ("earth," "experiements," "becuase"). which demonstrate an understanding of the purpose ("eat dried food," "don't get much sleep or and reasons ("First, a person . . . must be healthy," "Second there will be hands-on science order, and an organizational structure is established with clear transitions that connect opinions Adequate control of sentence formation is also demonstrated. Some errors are present in demonstrates sentence variety, appropriate control of language, and stylistic techniques. exercise," "For example we could take 10 pots of flowers and leave 5 on earth"). The response experiements"). Adequate relevant content for both reasons is supported with facts and details, A clear opinion is introduced, developed, and concluded ("It will be worth it"). There is a logical

ext page. GO ON	If you need additional space, please continue on the next page.
o [travel to] space"), developed, and ence. While there is an introduction be allowed to travel to space"), the ion. The student begins to write about uttle into space"). The writer then. The content presented is vague and ing on the qualifications of astronauts vel to space. Errors are present in d milluns," "dollers," "practise," "it too	An opinion is introduced ("students shald not be allowed to [travel to] space"), developed, and concluded with little awareness of task, purpose, and audience. While there is an introduction and a conclusion ("So no I do not think that students shald be allowed to travel to space"), the response lacks adequate development to support the opinion. The student begins to write about the cost, but support is limited ("milluns to send the shuttle into space"). The writer then shifts, without transition, to elaboration on the astronauts. The content presented is vague and demonstrates a weak understanding of the purpose, focusing on the qualifications of astronauts rather than on whether students should be allowed to travel to space. Errors are present in grammar, usage, spelling, and punctuation ("shald," "costed milluns," "dollers," "practise," "it too much cost").
	Response Score: 2
Opinion Writing Prompt Final Copy Final	De Cause it that stud The Cause it that stud The Cause it that stud That mate and not that The Cause it that They or all was allowed that They or allowed that



Opinion Writing Prompt Online Final Copy

A group is starting a program that would allow students to travel to space. Some people think this is a good idea because it would be a hands-on learning experience. Others think that the educational opportunity is not worth the cost. Should students be allowed to travel to space?

Write an essay for your teacher that states your opinion about whether students should be allowed to travel to space and explains why. Be sure to use details and reasons to support your

to float. I want to walk on the moon an drive a buggy on the moon like Armstrong. Students should be alloud to travl to space. I want to go to space. It would be fun



Response Score: 1

spelling ("alloud," "travl"). of task, purpose, and audience. The writer states an opinion ("Students should be alloud to travl to space") and then provides a list of three reasons why he or she wants to go to space: "fun to float," "walk on the moon," and "drive a buggy." Only one of those ideas is developed ("like Minimal evidence of an opinion is introduced, developed, and concluded with little awareness Armstrong"). There are no transitions and no organizational structure. Errors are present in

Informative/Explanatory Writing Prompt Writer's Checklist for the

PLAN before you write

- Make sure you understand what the prompt is asking you to do.
- Think about your task and your audience.
- Think about the topic and what you want to write about it.
- Organize your ideas on scratch paper. Use a thought map, outline, or other graphic organizer to plan your essay.

FOCUS while you write

- Stay focused on the topic.
- Support your ideas with specific details and examples.
- Use a variety of sentence types.
- Organize your paper with an introduction, body, and conclusion.
- Use transitions to connect your ideas.

PROOFREAD after you write

punctuation, and word choice.	\square I corrected any errors in capital	\square I used specific details to support my ideas.	- I stayed locused off the topic.
	$\hfill\square$ I corrected any errors in capitalization, spelling, sentence formation,	rt my ideas.	

Informative/Explanatory Writing Prompt

this prompt: You will have at least 30 minutes to plan, write, and proofread your response to

Think about the activities you could do on a rainy day. These could be inside even outside in the rain. They can be something you do on your own or with others. What is one activity that you could do on a rainy day?

Write an essay for your teacher that describes one activity you could do on a rainy day. Be sure to use details and examples to explain your idea.

Turn the page to begin writing your response.

If you need additional space, please continue on the next page.															USE NO. 2 PENCIL ONLY {
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GO ON															ng Prompt

Informative/Explanatory Writing Prompt (continued) Final Copy	

After you have checked your work, close this test booklet so your teacher will know you are finished.



SCORING GUIDELINE INFORMATIVE/EXPLANATORY WRITING PROMPT—4-POINT MODE-SPECIFIC

Assessment Anchor:

E05.C.1 Text Types and Purposes

Specific Eligible Content addressed by this prompt:

E05.C.1.2-Write informative/explanatory texts to examine a topic and convey ideas and information clearly.

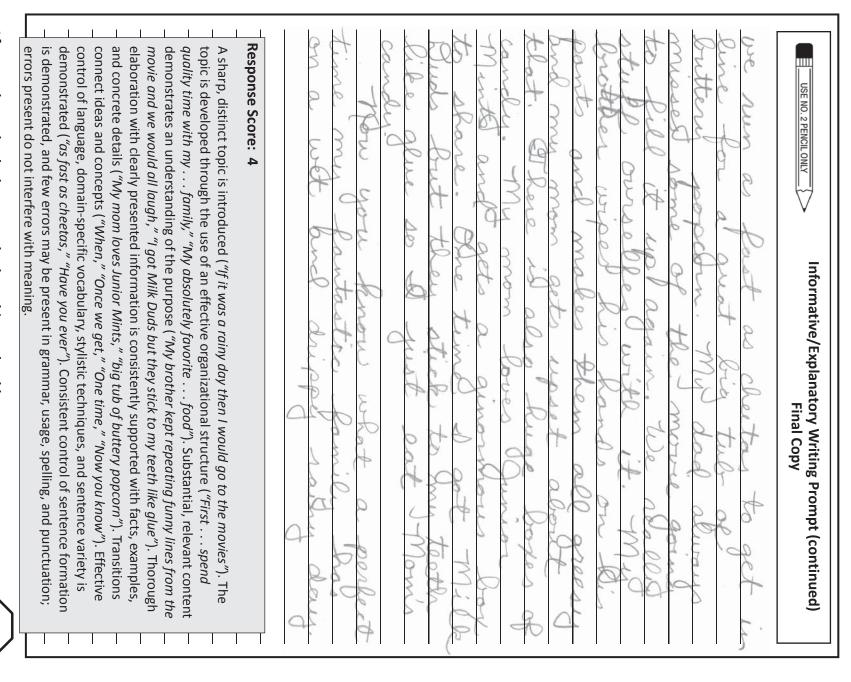
Informative/Explanatory Scoring Guidelines:

Score Point	Description
	 Sharp, distinct topic introduced, developed, and concluded with evident awareness of task, purpose, and audience
	 Effective order and organizational structure that develop a topic Substantial and relevant content that demonstrates an understanding of the purpose
.	Thorough elaboration with clearly presented information that is consistently supported with facts examples and concrete details.
4	Effective transitions that connect ideas and concepts
	Established and consistently maintained formal style with effective control of language, domain specific versions, stylistic techniques, and control of language, domain specific versions, stylistic techniques, and control of language, domain specific versions, stylistic techniques, and control of language, domain specific versions, stylistic techniques, and control of language, domain specific versions, stylistic techniques, and control of language, domain specific versions, stylistic techniques, and control of language, domain specific versions, stylistic techniques, and control of language, domain specific versions, stylistic techniques, and control of language, domain specific versions, stylistic techniques, and control of language, domain specific versions, stylistic techniques, and control of language, domain specific versions, stylistic techniques, and control of language, domain specific versions, stylistic techniques, and control of language, domain specific versions, stylistic techniques, sty
	Consistent control of sentence formation
	• Few errors may be present in grammar, usage, spelling, and punctuation; errors present do
	HOCHICE I ETE WICH HEATHING
	and audience
	 Adequate order and organizational structure that develop a topic
	 Adequate and relevant content that demonstrates an understanding of the purpose
)	 Sufficient elaboration with clearly presented information that is supported with facts,
U	Clear transitions that connect ideas and concepts
	• Established and maintained formal style with appropriate control of language, domain-
	specific vocabulary, stylistic techniques, and sentence variety
	Adequate control of sentence formation
	 Some errors may be present in grammar, usage, spelling, and punctuation; errors present
	seldom interfere with meaning

_	
	 Vague topic introduced, developed, and concluded with limited awareness of task, purpose, and audience
	 Inconsistent order and organizational structure that somewhat develop a topic
	Underdeveloped and/or repetitive elaboration that is inconsistently supported with facts,
)	examples, and details
1	 Inconsistent/limited transitions that somewhat connect ideas and concepts
	• Inconsistently maintained formal style with limited control of language, domain-specific
	vocabulary, stylistic techniques, and sentence variety
	Inconsistent control of sentence formation
	interfere with meaning
	Minimal topic introduced, developed, and concluded with little awareness of task, purpose,
	and audience
	Minimal content that demonstrates little or no understanding of the purpose
_	Undeveloped writing with little support; may be a bare list
۲	 Minimal transitions that may or may not connect ideas and concepts
	Ineffective formal style with little control of language
	 Many errors may be present in grammar, usage, spelling, and punctuation; errors present
	often interfere with meaning
Non-	BLK (blank) No response or written refusal to respond or too brief to determine response OTOff task/topic
scorables	I OF Response in a language other than English

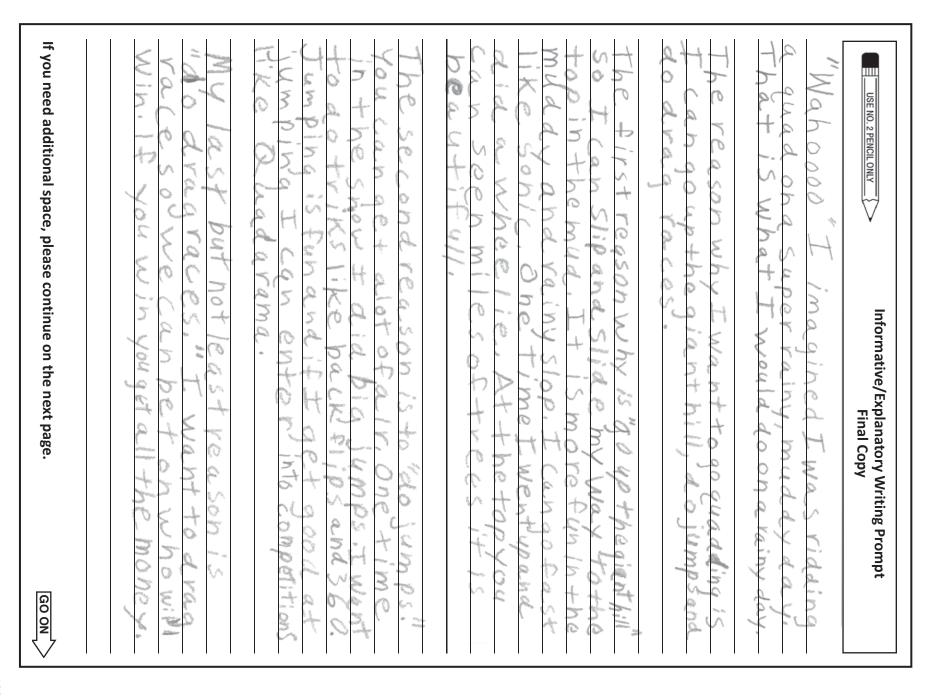
INFORMATIVE/EXPLANATORY WRITING PROMPT STUDENT RESPONSES

If you need additional space, please continue on the next page.	0	theater. OThat to	can smell the	that I love get	over and over	brie and	way kome w	l use could	to see Pust n	entertaining tim	theater is because	Dada soendi	theater becourse	Trato I Ri	would so to	more	you answer	to see what	10	0	that you a	USE NO. 2 PENCIL ONLY \	
ntinue on the next page.	C	well get our tie	Buttery Popram	ing to the movie	Red tour stomes	D bel Rou	the state of the	to lawal	Book it was hile	To the series of the	ude of stating to	in buy south	O getting	be going to the	the movies.	9	und yes then	page so	Aget Lie		ver been so seare	Informative/Explanatory Writing Prompt Final Copy	
GO ON		bets	202	\$.				2 tho	rous	20 92		et ati	in the second			A Company of the Comp	d'e	5	time	3580	0		



After you have checked your work, close this test booklet so your teacher will know you are finished





"beautifull," "triks"); however, these seldom interfere with meaning.
slide my way to the top in the mud," "do triks like back flips and 360"). Appropriate control of language, vocabulary, stylistic techniques, and sentence variety is demonstrated ("fast like sonic," "spin outs," "At the top you can seen miles of trees"). Adequate control of sentence formation is
and concepts ("The reason why I want to," "so I can," "One time," "last but not least") and there is an adequate organizational structure ("I can go up the giant hill, do jumps and do drag races"). Adequate, relevant content demonstrates an understanding of the purpose ("slip and
Response Score: 3
quadding on the rainy day.
Muddy Tusually win too, cast
You cango really Past. Inthe
Informative/Explanatory Writing Prompt (continued) Final Copy

After you have checked your work, close this test booklet so your teacher will know you are finished.





Informative/Explanatory Writing Prompt Online Final Copy

could do on a rainy day? the rain. They can be something you do on your own or with others. What is one activity that you Think about the activities you could do on a rainy day. These could be inside or even outside in

Write an essay for your teacher that describes one activity you could do on a rainy day. Be sure to use details and examples to explain your idea.

rink, I would go with Kelsey, Kylie and Kim. On a rainy day I would like to go roller skating with my friends at Southtown roller

4

have my won pair of white roller skates that I got at a garage sale. flashing light and music. Some times there are races that I do and is super fun! I Roller skating is one of my favorite things to do! I like roller skating with all the

pretzels. Southtown has a food stand where you can get yummy food like pizza, nachos, an Roller skating is also fun because there are video games like Mrs. Pac-Man.

In conclusion, that is what I would like to do on a rainy day.

Response Score: 2

a formation issue (comma splice), and there are some errors in grammar, usage, spelling, and develops the topic. The use of transitions is limited ("In conclusion"). The opening sentence has the introductory and concluding statements, there is not an organizational structure that is without elaboration and/or presented as a list ("pizza, nachos, an[d] pretzels"). Other than and details ("Southtown," "white roller skates that I got at a garage sale"), much of the content content contributes to an underdeveloped response. While there are some facts, examples, There is a clear topic introduced ("I would like to go roller skating"); however, the inadequate punctuation ("Some times there are races \ldots is super fun!").

If you need additional space, please continue on the next page.			A topic is introduced ("bowling"); however, there is limited awareness of task, purpose, and audience in this brief response. The writer provides minimal content that does not appear to have any order or organizational structure. Minimal transitions are present, but they do not function to connect ideas ("When"). Errors are present in grammar, usage, spelling, and punctuation ("fowl").	Response Score: 1	is why. I want to beat my bro-	Informative/Explanatory Writing Prompt Final Copy
GO ON			e, and pear g, and		theris	pt

Writer's Checklist for the Narrative Writing Prompt

PLAN before you write

- Make sure you understand what the prompt is asking you to do.
- Think about your task and your audience.
- Think about the subject and the story you want to write
- Organize your ideas on scratch paper. Use a thought map, outline, or other graphic organizer to plan your story.

FOCUS while you write

- Stay with the same point of view.
- Use descriptive details in your story. Include dialogue, if appropriate.
- Use a variety of sentence types.
- Tell your story so it has a clear beginning, middle, and end.

PROOFREAD after you write

punctuation, and word choice.	$\hfill \square$ I corrected any errors in capitalization, spelling, sentence formation,	\square I used descriptive details in my story.	\square I stayed with the same tone and point of view.
	ling, sentence formation,		ew.

Narrative Writing Prompt

this prompt: You will have at least 30 minutes to plan, write, and proofread your response to

Imagine that something exciting happened at school. It could be something that really has happened or something you make up.

Write a story for your teacher that tells about something exciting that happened at school. Make sure your story has a beginning, middle, and end.

Turn the page to begin writing your response.

If you need additional space, please continue on the next page.															USE NO. 2 PENCIL ONLY {
ontinue on the next page.															Narrative Writing Prompt Final Copy
GO ON															

Narrative Writing Prompt (continued) Final Copy	USE NO. 2 PENCIL ONLY {

After you have checked your work, close this test booklet so your teacher will know you are finished.



NARRATIVE WRITING PROMPT—4-POINT MODE-SPECIFIC SCORING GUIDELINE

Assessment Anchor:

E05.C.1 Text Types and Purposes

Specific Eligible Content addressed by this prompt:

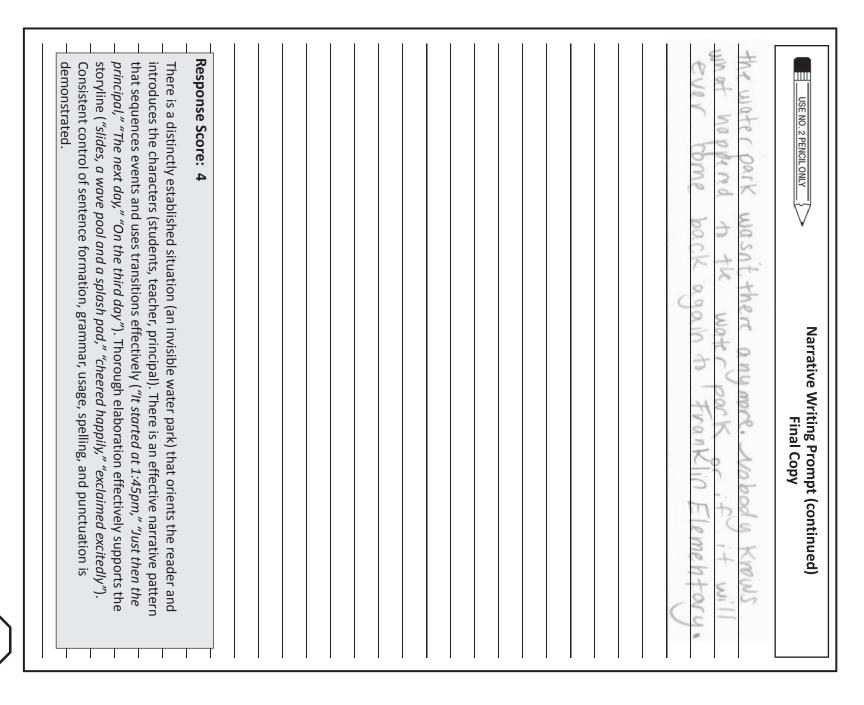
E05.C.1.3—Write narratives to develop real or imagined experiences or events using effective techniques, descriptive details, and clear event sequences.

Narrative Scoring Guidelines:

Point	Description
	 Vague situation/theme that inconsistently orients the reader and introduces the narrator and/or characters
	• Weak narrative pattern that inconsistently sequences events and may or may not provide a
	conclusion
	 Weak elaboration that somewhat supports the storyline
J	 Limited use of narrative techniques to somewhat develop experiences and events
N	 Inconsistent/limited use of transitions
	Limited control of language that conveys experiences and events using limited concrete
	words, phrases, and sensory details
	 Inconsistent control of sentence formation
	• Errors may be present in grammar, usage, spelling, and punctuation; errors present may
	ווונפו ופו פ אונוו ווופמוווווא
	 Minimal evidence of a situation/theme Minimal sequencing of events that may or may not establish a narrative pattern
	 Minimal elaboration that may or may not support the storyline
7	 Minimal use of narrative techniques
—	 Minimal use of transitions
	 Insufficient control of language (words, phrases, and sensory details)
	 Winimal control of sentence formation
	often interfere with meaning
Non-	BLK (blank)No response or written refusal to respond or too brief to determine response OTOff task/topic
scorables	LOEResponse in a language other than English

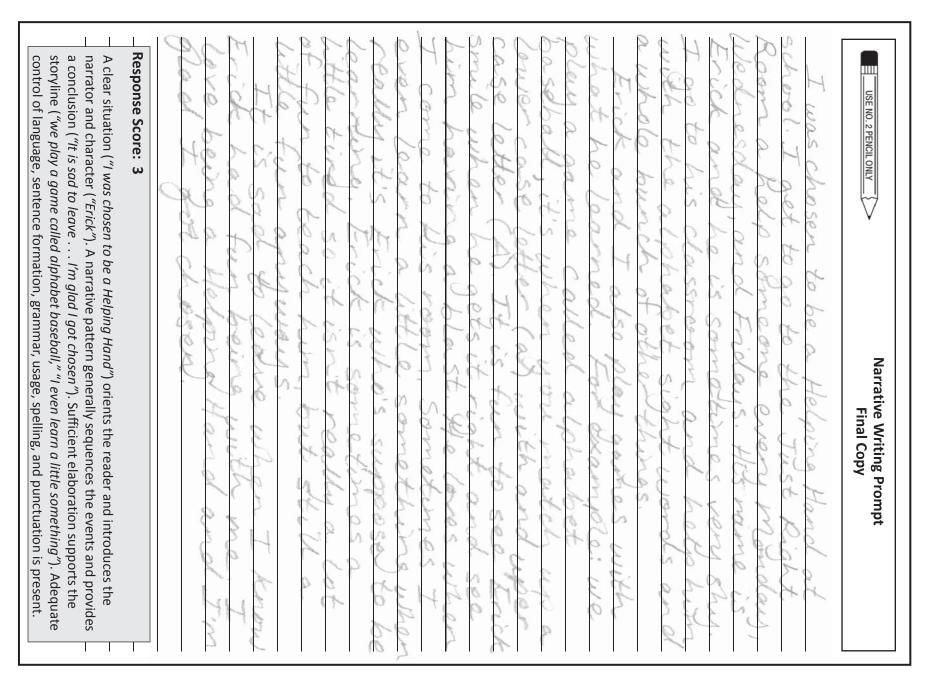
NARRATIVE WRITING PROMPT STUDENT RESPONSES

H was a normal quiet day at Franklin Flementagy. It started at 1:45 pm when the class came back of a mither art youn the third grade class had was kacher in quietly and taken their stable she be? Franklin Flementagy. It started at 1:45 pm when sald she be? Franklin Flementagy. It started at 1:45 pm when sald she be? Youza I sthat our teacher wald she was a she was last to the all talk at the principal wall to a walk at the principal was kind word miss wall to a walk at the principal was kind builty at the index should be and the principal was kind builty and the walt was a blast marker of all sorts of she was teacher walk at the water pack in the walter and should the principal wall was a bear a had in the walter pack in the walter pack in the walter pack in the walter and should the principal wall was a field trop to the walter pack in the walter and walter and the walter and the walter and the walter and the walte
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teacher will know you are finished. After you have checked your work, close this test booklet so your







Narrative Writing Prompt Online Final Copy

happened or something you make up. Imagine that something exciting happened at school. It could be something that really has

at school. Make sure your story has a beginning, middle, and end. Write a story for your teacher that tells about something exciting that happened

class room she looked sad. My teacher picked me to give her a little tour of the A new girl came to our school. It was near spring. Her parents brought her in the

showed kindness to my new friend. I was excited because I got a new friend at was happy. She said I would be a great friend. My parents were proud because I to her new school. Her parents were happy she found a friend like me. My teacher asked her to sit next to me. We were playing and talking. I made her feel welcomed The next day I say down and was talking to her. When we went to lunch I

Response Score: 2

enough to move the response to a higher score. few errors are present in grammar, usage, spelling, and punctuation; however, this alone is not lunch or what game they played. Adequate control of sentence formation is demonstrated, and specific names of people, no specific grade, no school name, no details about what they ate for proud," "I was excited"). There is limited use of concrete words, phrases, and sensory details; no long, listed conclusion ("Her parents were happy," "My teacher was happy," "My parents were character ("new girl"). There is a brief narrative pattern that sequences events and provides a There is a vague situation/theme that orients the reader and introduces the narrator and

If you need additional space, please continue on the next page.	Response Score: 1 There is minimal evidence of a situation/theme beyond the topic of recess. There is minimal sequencing of events and use of transitions ("one time I fell," "another day I slid," "the next day"); however, they do not establish a narrative pattern. The response lacks sensory details and narrative techniques. Many errors are present in grammar, usage, spelling, and punctuation ("Basketball," "play groud," "monkeybour," "the another day," "friend push me").	At Recess I played Bakethall final Copy At Recess I played Bakethall final Copy And also society but I don't like play groud Because one time I fell in another day I stid and I fell and got hurt And the next side and push me so hard I fell and got hurt. And the next side and push me so hard I fell and got hurt.
GOON	imal ext tails tuation	the the

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Preliminary Item and Scoring Sampler PSSA Grade 5 English Language Arts

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ALGEBRA I

ITEM AND SCORING SAMPLER

2011



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INFORMATION ABOUT ALGEBRA I

INTRODUCTION

instructional programs and in preparing students for the Keystone Exams. assessment anchor documents, assessment handbooks, and content-based item and scoring samplers. This delivering focused instructional programs aligned to the state assessment system. These tools include 2011 Algebra I Item and Scoring Sampler is a useful tool for Pennsylvania educators in the preparation of local The Pennsylvania Department of Education (PDE) provides districts and schools with tools to assist in

rigorous review process to ensure alignment with the Assessment Anchors and Eligible Content. questions that will appear on the operational Spring 2011 Keystone Exams. Each question has been through a are aligned to the Keystone Assessment Anchors and Eligible Content. They provide examples of the types of This Item and Scoring Sampler contains multiple-choice questions and constructed-response questions that

can then use the sampler as a guide to score the responses either independently or together with colleagues find it beneficial to have students respond to the constructed-response questions in this sampler. Educators level, and they may also be copied and used as part of a local instructional program. 1 Classroom teachers may The questions in this sampler may be used as examples for creating assessment questions at the classroom within a school or district.

ABOUT THE KEYSTONE EXAMS

school graduation requirements. Students must also earn state-specified credits, fulfill the state's service-Literature, U.S. History, and World History. The Keystone Exams are just one component of Pennsylvania's high including Algebra I, Algebra II, Biology, Chemistry, Civics and Government, English Composition, Geometry, The Keystone Exams are end-of-course assessments designed to assess proficiency in various subject areas, learning and attendance requirements, and complete any additional local school system requirements to receive a Pennsylvania high school diploma.

For detailed information about how the Keystone Exams are being integrated into the Pennsylvania graduation www.pdesas.org. requirements, please contact the Pennsylvania Department of Education or visit the PDE Web site at

ALIGNMENT

statements. action statements will also specifically align with the Assessment Anchors as defined by the Eligible Content the Assessment Anchors as defined by the Eligible Content statements. The process skills, directives, and documents. The Algebra I content included in the Keystone Algebra I multiple-choice questions will align with specific content aligned to statements and specifications included in the course-specific assessment anchor The Algebra I Keystone Exam consists of exam questions arranged into two modules: Operations and Linear Equations & Inequalities and Linear Functions and Data Organizations. Each module corresponds to

words, the verbs or action statements used in the constructed-response questions or stems can come from Anchor statements, the Anchor Descriptor statements, and/or the Eligible Content statements. In other demands of the Algebra I constructed-response questions align with specifications included in the Assessment Content statements. The process skills, directives, and action statements included in the performance The content included in Algebra I constructed-response questions aligns with content included in the Eligible the Eligible Content, Anchor Descriptor, or Assessment Anchor statements.

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INFORMATION ABOUT ALGEBRA I

KEYSTONE EXAM FORMAT

correct answer for each multiple-choice question is worth one point. possible answer options. Students read each question and record their answers in the space provided. The The Algebra I Keystone Exam includes questions that require students to select the best answer from four

specific scoring guide. guideline is combined with sample student responses representing each score point to form a practical, itemusing an item-specific scoring guideline based on a 0-4 point scale. In this sampler, each item-specific scoring additional time as necessary to complete the exam. Each constructed-response question in Algebra I is scored designed to take about ten minutes to complete. During an actual exam administration, students are given read the question and write their responses in the spaces provided. Each constructed-response question is The Algebra I Keystone Exam also includes questions that require students to write responses. Students

guidelines are created for use within local instructional programs. item-specific scoring guidelines. These general guidelines should be used if any additional item-specific scoring The sampler also includes the General Description of Scoring Guidelines for Algebra I used to develop the

INFORMATION ABOUT ALGEBRA I

GENERAL DESCRIPTION OF SCORING GUIDELINES FOR ALGEBRA I

4 POINTS

- required by the task. The response demonstrates a thorough understanding of the mathematical concepts and procedures
- and a correct explanation, as required by the task. Response may contain a minor "blemish" or The response provides correct answer(s) with clear and complete mathematical procedures shown omission in work or explanation that does not detract from demonstrating a *thorough* understanding.

3 POINTS

- The response demonstrates a general understanding of the mathematical concepts and procedures required by the task.
- The response and explanation (as required by the task) are mostly complete and correct. The response may have minor errors or omissions that do not detract from demonstrating a general understanding.

2 POINTS

- The response demonstrates a partial understanding of the mathematical concepts and procedures required by the task.
- and/or procedures demonstrated and/or explained. The response may contain some work that is The response is somewhat correct with partial understanding of the required mathematical concepts incomplete or unclear.

1 POINT

The response demonstrates a minimal understanding of the mathematical concepts and procedures required by the task.

O POINTS

of the mathematical concepts and procedures required by the task for that grade level. The response has no correct answer and insufficient evidence to demonstrate any understanding

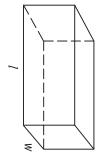
FORMULA SHEET

Formulas that you may need to work questions in this sampler are found below.

You may use calculator π or the number 3.14.



$$A = lw$$



Linear Equations

Slope:
$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Point-Slope Formula:
$$(y-y_1) = m(x-x_1)$$

Slope-Intercept Formula:
$$y = mx + b$$

Standard Equation of a Line:
$$Ax + By = C$$

Arithmetic Properties

Additive Inverse:
$$a + (-a) = 0$$

Multiplicative Inverse:
$$a \cdot \frac{1}{a} = 1$$

Commutative Property:
$$a+b=b+a$$

 $a\cdot b=b\cdot a$

Associative Property:
$$(a+b)+c=a+(b+c)$$

 $(a\cdot b)\cdot c=a\cdot (b\cdot c)$

Identity Property:
$$a+0=a$$

 $a\cdot 1=a$

Distributive Property:
$$a \cdot (b+c) = a \cdot b + a \cdot c$$

Multiplicative Property of Zero:
$$a \cdot 0 = 0$$

Additive Property of Equality: If a = b, then a + c = b + c

If
$$a = b$$
, then $a + c = b + c$

Multiplicative Property of Equality:

If
$$a = b$$
, then $a \cdot c = b \cdot c$

MULTIPLE-CHOICE QUESTIONS

A1.1.1.1.1

An expression is shown below.

Which value of x makes the expression equivalent to $10\sqrt{51}$?

- 5
- B. 25 *
- C. 50
- D. 100

A student could determine the **correct** answer, option B, by factoring $10\sqrt{51}$ as $2 \times 5\sqrt{51}$, then moving the 5 inside the radical as $2\sqrt{51} \times 5 \times 5 = 2\sqrt{51} \times 25$.

it under the radical. A student could arrive at an **incorrect** answer by either using an incorrect method or by making errors in computation. For example, a student would arrive at option A if he/she failed to square 5 when he/she moved

ы Simplify:

$$2(2\sqrt{4})^{-2}$$

- ∞|<u>→</u> *
- $\bar{\omega}$ 4|4
- Ω 16
- D. 32

A student could determine the **correct** answer, option A, by recognizing
$$2(2\sqrt{4})^{-2} = \frac{2}{2\sqrt{4} \times 2\sqrt{4}} = \frac{2}{2 \times 2 \times \sqrt{4} \times \sqrt{4}} = \frac{1}{2 \times 4} = \frac{1}{8}.$$

how to use radicals or negative exponents. For example, a student would arrive at option D if he/she ignored the negative exponent and treated $2(2\sqrt{4})^{-2}$ as $2(2\sqrt{4})^2$. A student could arrive at an incorrect answer by failing to follow correct order of operations or by not knowing

A1.1.1.5.1

3. A polynomial expression is shown below.

$$(mx^3 + 3) (2x^2 + 5x + 2) - (8x^5 + 20x^4)$$

The expression is simplified to $8x^3 + 6x^2 + 15x + 6$. What is the value of m?

- A. -8
- B. -4
- C. 4 *
- D. S

A student could determine the **correct** answer, option C, by using correct order of operations and the distributive property to expand $(mx^3 + 3)(2x^2 + 5x + 2)$ to $2mx^5 + 5mx^4 + 2mx^3 + 6x^2 + 15x + 6$. The student could then combine like terms and realize that $2mx^5 - 8x^5 = 0x^5$, so 2m = 8 and m = 4.

he/she failed to distribute and then set $mx^3 = 8x^3$, so m = 8. distributive property, or incorrectly combining like terms. For example, a student would arrive at option D if A student could arrive at an incorrect answer by failing to follow order of operations, making an error with the

A1.1.1.5.2

- **4.** Which is a factor of the trinomial $x^2 2x 15$?
- A. (x 13)
- B. (x-5)
- C. (x + 5)
- D. (x + 13)

and identifying (x-5) as a factor. A student could determine the **correct** answer, option B, by factoring the trinomial $x^2 - 2x - 15$ as (x - 5)(x + 3)

would arrive at option C if he/she factored $x^2 - 2x - 15$ as (x + 5)(x - 3) and identified (x + 5) as a factor. A student could arrive at an incorrect answer by failing to correctly factor the trinomial. For example, a student

A1.1.1.5.3

5. Simplify:

$$\frac{x^2 - 3x - 10}{x^2 + 6x + 8} \; ; \; x \neq -4, -2$$

A.
$$-\frac{1}{2}x - \frac{5}{4}$$

B.
$$x^2 - \frac{1}{2}x - \frac{5}{4}$$

C.
$$\frac{x-5}{x+4}$$

*

D.
$$\frac{x+5}{x-4}$$

A student could determine the **correct** answer, option C, by factoring both the numerator and denominator, then reducing $\frac{x^2 - 3x - 10}{x^2 + 6x + 8} = \frac{(x - 5)(x + 2)}{(x + 4)(x + 2)} = \frac{x - 5}{x + 4}$.

incorrectly factoring the numerator and denominator. For example, a student would arrive at option D by factoring $\frac{x^2-3x-10}{x^2+6x+8}$ as $\frac{(x+5)(x-2)}{(x-4)(x-2)}$. A student could arrive at an incorrect answer by failing to factor the numerator and denominator or by

A1.1.2.2.1

<u>ი</u> much time Anna spent on each exercise. 700 calories. The system of equations shown below can be used to determine how hiking for y minutes. She spent a total of 60 minutes running and hiking and burned Anna burned 15 calories per minute running for x minutes and 10 calories per minute

$$15x + 10y = 700$$

$$x + y = 60$$

What is the value of x, the minutes Anna spent running?

- A. 10
- B. 20 *
- C. 30
- D. 40

15x + 10y = 700 yields 15x + 10(60 - x) = 700. Using the distributive property yields 15x + 600 - 10x = 700. Combining like terms and subtracting 600 from both sides yields 5x = 100. Dividing both sides by 5 yields x = 20. Solving the equation x + y = 60 for y yields y = 60 - x. Substituting 60 - x in the place of y in the equation A student could determine the correct answer, option B, by solving the system of equations using substitution.

like terms and subtracting 60 from both sides yields 16x = 640. Dividing both sides by 16 yields x = 40. solving for y as y = x + 60 and then failing to distribute when substituting, yielding 15x + x + 60 = 700. Combining equations or by making errors in computation. For example, a student would arrive at option D by incorrectly A student could arrive at an incorrect answer by either using an incorrect method for solving a system of

A1.1.2.2.2

7 equations shown below represents this situation. Samantha and Maria purchased flowers. Samantha purchased 5 roses for *x* dollars each and 4 daisies for *y* dollars each and spent \$32 on the flowers. Maria purchased 1 rose for *x* dollars and 6 daisies for *y* dollars each and spent \$22. The system of

$$5x + 4y = 32$$

$$x + 6y = 22$$

Which statement is true?

- A. A rose costs \$1 more than a daisy. *
- B. Samantha spent \$4 on each daisy.
- 9 Samantha spent more on daisies than she did on roses.
- D Maria spent 6 times as much on daisies as she did on roses.

interpreting the solution x = 4 and y = 3. The x-variable refers to the price of a rose and the y-variable refers to the price of a daisy. 4-3=1A student could determine the correct answer, option A, by solving the system of equations and correctly

incorrectly interpreting the solution set. For example, a student would arrive at option B if he/she interpreted the x-value as the price of a daisy. A student could arrive at an incorrect answer by either making errors in solving the system of equations or by

A1.1.3.1.1

- ထု Which is a graph of the solution of the inequality $|2x - 1| \ge 5$?

inequality yields $x \le -2$. A student could determine the correct answer, option A, by simplifying the absolute value inequality. $2x-1 \ge 5$ is eqivalent to $2x-1 \ge 5$ and $2x-1 \le -5$. Solving the first inequality yields $x \ge 3$. Solving the second

inequality into simple inequalities. inequalities before manipulating to solve the equation. For example, a student would arrive at option C if he/she first added 1 to each side of the absolute value inequality, divided both sides by 2, then split the absolute value A student could arrive at an incorrect answer by failing to split the absolute value inequality into simple

A1.1.3.1.3

- 9 the number of new baseballs that can be purchased is true? A baseball team had \$1,000 to spend on supplies. The team spent \$185 on a new bat. New baseballs cost \$4 each. The inequality $185 + 4b \le 1,000$ can be used to determine the number of new baseballs (b) that the team can purchase. Which statement about
- A. The team can purchase 204 new baseballs.
- Ē The minimum number of new baseballs that can be purchased is 185.
- <u>റ</u> The maximum number of new baseballs that can be purchased is 185
- D. maximum nor the minimum. The team can purchase 185 new baseballs, but this number is neither the maximum nor the minimum. st

 $b \le 203.75$. The variable b represents the number of baseballs that can be purchased. It is a true statement that A student could determine the correct answer, option D, by solving the inequality and interpreting the solution

incorrectly interpreting the solution set. For example, a student would arrive at option A if he/she switched the sign of the inequality when dividing by 4. A student could arrive at an incorrect answer by either making errors in solving the system of equations or by

A1.1.3.2.2

dinner. This can be represented by the system of inequalities shown below, where y is the amount of tip and x is the cost of dinner. Tyreke always leaves a tip of between 8% and 20% for the server when he pays for his

Which of the following is a true statement?

- ⋗ When the cost of dinner, x, is \$10 the amount of tip, y, must be between \$2 and \$8.
- $\overline{\omega}$ When the cost of dinner, x, is \$15 the amount of tip, y, must be between \$1.20 and \$3.00. *
- Ω When the tip, y, is \$3, the cost of dinner, x, must be between \$11 and \$23.
- Ō When the tip, y, is \$2.40, the cost of dinner, x, must be between \$3 and \$6

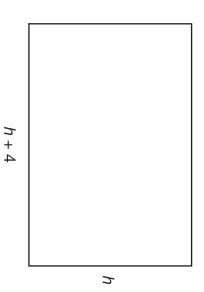
of the problem situation. When 15 is substituted for the x-variable, y > 0.08(15) or y > 1.2 and y < 0.2(15) or y < 0.2 and y < 0.2 A student could determine the correct answer, option B, by interpreting the system of inequalities in the context

as 8 and switched the signs of both inequalities. system of inequalities. For example, a student would arrive at option A if he/she incorrectly calculated 0.08(10) A student could arrive at an incorrect answer by either making errors in computation or in interpretation of the

CONSTRUCTED-RESPONSE QUESTIONS

A1.1.1

: Keng creates a painting on a rectangular canvas with a width that is four inches longer than the height, as shown in the diagram below.



⋗ canvas. Write a polynomial expression, in simplified form, that represents the area of the

Keng adds a 3-inch-wide frame around all sides of his canvas.

<u></u>ω Write a polynomial expression, in simplified form, that represents the total area of the canvas and the frame.

Go to the next page to finish question 11.

<u>:</u> Continued. Please refer to the previous page for task explanation.

Keng is unhappy with his 3-inch-wide frame, so he decides to put a frame with a different width around his canvas. The total area of the canvas and the new frame is given by the polynomial $h^2 + 8h + 12$, where h represents the height of the canvas.

<u>ი</u> each step. Determine the width of the new frame. Show all your work. Explain why you did

ITEM-SPECIFIC SCORING GUIDELINE

ITEM # 11, MODULE 1

Assessment Anchor:

This item is reported under A1.1.1 Operations with Real Numbers and Expressions

Specific Eligible Content addressed by this item:

A1.1.1.5.1 – Add, subtract, and/or multiply polynomial expressions (express answers in simplest form).

A1.1.1.5.2— Factor algebraic expressions, including difference of squares and trinomials.

Scoring Guide:

and expressions by correctly solving problems with clear and complete procedures and explanations when required. The student demonstrates a <i>general</i> understanding of operations with real numbers and expressions by solving problems and providing procedures and expressions by solving problems and providing procedures and explanations with only minor errors or omissions. The student demonstrates a <i>partial</i> understanding of operations with real numbers and explanations. The student demonstrates a <i>minimal</i> understanding of operations with real numbers and expressions. The student does not demonstrate any understanding of operations with real numbers and expressions.
The student demonstrates a <i>general</i> understanding of operations v expressions by solving problems and providing procedures and experrors or omissions. The student demonstrates a <i>partial</i> understanding of operations w and expressions by providing a portion of the correct problem solviexplanations. The student demonstrates a <i>minimal</i> understanding of operations vexpressions. The student does not demonstrate any understanding of operation expressions.
The student demonstrates a <i>partial</i> understanding of operations w and expressions by providing a portion of the correct problem solving the explanations. The student demonstrates a <i>minimal</i> understanding of operations vexpressions. The student does not demonstrate any understanding of operation expressions.
The student demonstrates a <i>minimal</i> understanding of operations of expressions. The student does not demonstrate any understanding of operation expressions.
The student does not demonstrate any understanding of operation expressions.

Top Scoring Response:

$h^2 + 4h$ OR equivalent	Part A: What?
	Why?

(1 score point)

1 point for correct expression

Part B: What?	Why?
$h^2 + 16h + 60$ OR equivalent	

(1 score point)

1 point for correct expression

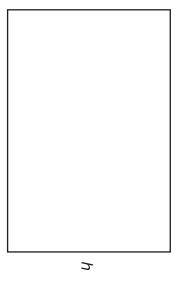
Part C: What?	Why?
1 inch	Sample Explanation
	To do this problem, I factored
	$h^2 + 8h + 12$ into $(h + 6)(h + 2)$ to find
	the length and height of the canvas
	and frame. The new height, $h + 2$, is 2
	more than the height of the canvas, h ,
	so the new frame must add a total of
	2 inches, 1 inch on each side.

(2 score points)

- 1 point for correct answer
 1 point for correct work and explanation

A1.1.1 Response Score: 4 points

: Keng creates a painting on a rectangular canvas with a width that is four inches longer than the height, as shown in the diagram below.



Write a polynomial expression, in simplified form, that represents the area of the canvas.

h +

4

⋗

Student has given a correct expression.

Keng adds a 3-inch-wide frame around all sides of his canvas.

<u></u>ω Write a polynomial expression, in simplified form, that represents the total area of the canvas and the frame.

$$[w = (h+4+3+3)(h+3+3) = (h+10)(h+6)$$

= $h^2 + 10h + 6h + 60 = h^2 + 16h + 60$

Student has given a correct expression.

Continued. Please refer to the previous page for task explanation.

Keng is unhappy with his 3-inch-wide frame, so he decides to put a frame with a different width around his canvas. The total area of the canvas and the new frame is given by the polynomial $h^2 + 8h + 12$, where h represents the height of the canvas.

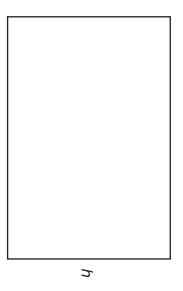
<u>ဂ</u> Determine the width of the new frame. Show all your work. Explain why you did each step.

Based on Scoring Guidelines, 4 points is representative of a "thorough understanding."

Student has given an explanation.

A1.1.1 Response Score: 3 points

: Keng creates a painting on a rectangular canvas with a width that is four inches longer than the height, as shown in the diagram below.



Write a polynomial expression, in simplified form, that represents the area of the canvas

h+4

Þ

Student has given a correct expression.

Keng adds a 3-inch-wide frame around all sides of his canvas.

Ē Write a polynomial expression, in simplified form, that represents the total area of the canvas and the frame.

Student has given a correct expression.

<u>:</u> Continued. Please refer to the previous page for task explanation.

Keng is unhappy with his 3-inch-wide frame, so he decides to put a frame with a different width around his canvas. The total area of the canvas and the new frame is given by the polynomial $h^2 + 8h + 12$, where h represents the height of the canvas.

<u>ဂ</u> Determine the width of the new frame. Show all your work. Explain why you did each step.

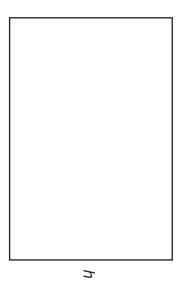
5

Student has given a correct answer. Student has shown no work. Student has given no explanation.

Based on Scoring Guidelines, 3 points is representative of a "general understanding."

A1.1.1 Response Score: 3 points

Keng creates a painting on a rectangular canvas with a width that is four inches longer than the height, as shown in the diagram below.



⋗ Write a polynomial expression, in simplified form, that represents the area of the canvas

h+4

hx (h+4)=h2+4h

Student has given a correct expression.

Keng adds a 3-inch-wide frame around all sides of his canvas.

Ē Write a polynomial expression, in simplified form, that represents the total area of the canvas and the frame

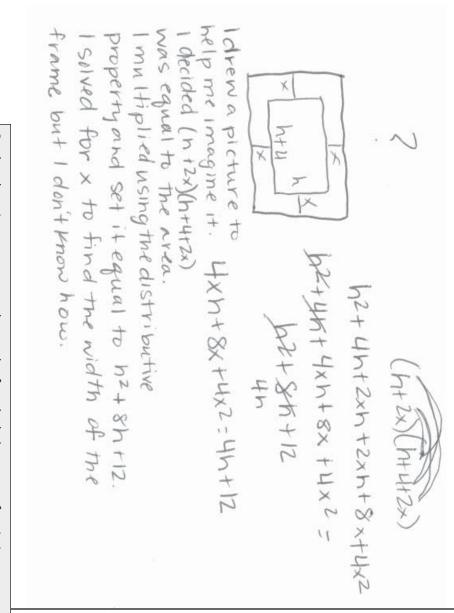
(h+10)(h+6)=h2+16h+

Student has given a correct expression.

Continued. Please refer to the previous page for task explanation.

Keng is unhappy with his 3-inch-wide frame, so he decides to put a frame with a different width around his canvas. The total area of the canvas and the new frame is given by the polynomial $h^2 + 8h + 12$, where h represents the height of the canvas.

Determine the width of the new frame. Show all your work. Explain why you did each step.

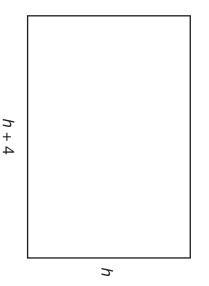


Student has correct work (all procedures necessary to solve problem are shown). Student has correct explanation (picture helps). Student has given no answer, the result of a calculation error of omission.

Based on Scoring Guidelines, 3 points is representative of a "general understanding."

A1.1.1 Response Score: 2 points

: Keng creates a painting on a rectangular canvas with a width that is four inches longer than the height, as shown in the diagram below.



Þ Write a polynomial expression, in simplified form, that represents the area of the

+

$$(h+4)(h) = h^2 + 4h$$

Student has given a correct expression.

Keng adds a 3-inch-wide frame around all sides of his canvas.

Ē Write a polynomial expression, in simplified form, that represents the total area of the canvas and the frame.

$$h (h+7)(h+3)=h^2+10h+21$$

Student has failed to take into consideration Student has given an incorrect expression. that the frame is on all four sides of the figure and not just on two.

Continued. Please refer to the previous page for task explanation.

Keng is unhappy with his 3-inch-wide frame, so he decides to put a frame with a different width around his canvas. The total area of the canvas and the new frame is given by the polynomial $h^2 + 8h + 12$, where h represents the height of the canvas.

Determine the width of the new frame. Show all your work. Explain why you did each step.

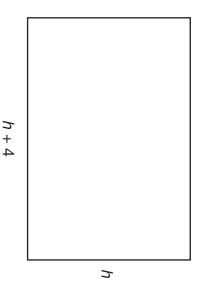
I inch h²+8h+12 is less than h²+10ht81 So it has to be less than 3 in.

Student has given a correct answer.
Student has shown no correct work.
Student has given no correct explanation.

Based on Scoring Guidelines, 2 points is representative of a "partial understanding."

A1.1.1 Response Score: 2 points

: Keng creates a painting on a rectangular canvas with a width that is four inches longer than the height, as shown in the diagram below.



⋗ Write a polynomial expression, in simplified form, that represents the area of the

h(h+4)

Student has given a correct expression.

Keng adds a 3-inch-wide frame around all sides of his canvas

<u></u>ω Write a polynomial expression, in simplified form, that represents the total area of the canvas and the frame.

h+3)(h+4+3) = (h+3)(h+7)

Student has given an incorrect expression.

Student has failed to take into consideration that the frame is on all four sides of the figure and not just on two.

Continued. Please refer to the previous page for task explanation.

Keng is unhappy with his 3-inch-wide frame, so he decides to put a frame with a different width around his canvas. The total area of the canvas and the new frame is given by the polynomial $h^2 + 8h + 12$, where h represents the height of the canvas.

Determine the width of the new frame. Show all your work. Explain why you did each step.

Student has given an incorrect answer.

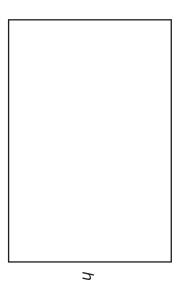
Student has shown correct work up to interpreting answer.

Student has given correct explanation.

Based on Scoring Guidelines, 2 points is representative of a "partial understanding."

A1.1.1 Response Score: 1 point

: Keng creates a painting on a rectangular canvas with a width that is four inches longer than the height, as shown in the diagram below.



Þ Write a polynomial expression, in simplified form, that represents the area of the canvas

h +



Student has given a correct expression.

Keng adds a 3-inch-wide frame around all sides of his canvas

Ē Write a polynomial expression, in simplified form, that represents the total area of the canvas and the frame



Student has given an incorrect expression.

Continued. Please refer to the previous page for task explanation.

Keng is unhappy with his 3-inch-wide frame, so he decides to put a frame with a different width around his canvas. The total area of the canvas and the new frame is given by the polynomial $h^2 + 8h + 12$, where h represents the height of the canvas.

Determine the width of the new frame. Show all your work. Explain why you did each step.

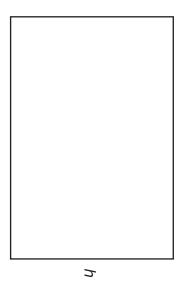
h-18hH2 is smaller than h-110hH2 so the new frame was smaller than 3 TM.

Student has given an incorrect answer.
Student has shown no correct work.
Student has given no correct explanation.

Based on Scoring Guidelines, 1 point is representative of a "minimal understanding."

A1.1.1 Response Score: 1 point

: Keng creates a painting on a rectangular canvas with a width that is four inches longer than the height, as shown in the diagram below.



Þ Write a polynomial expression, in simplified form, that represents the area of the canvas

h+4

h2+4h

Student has given a correct expression.

Keng adds a 3-inch-wide frame around all sides of his canvas.

Ē Write a polynomial expression, in simplified form, that represents the total area of the canvas and the frame.

h2+7h

Student has given an incorrect expression.

<u>:</u> Continued. Please refer to the previous page for task explanation.

Keng is unhappy with his 3-inch-wide frame, so he decides to put a frame with a different width around his canvas. The total area of the canvas and the new frame is given by the polynomial $h^2 + 8h + 12$, where h represents the height of the canvas.

<u>ဂ</u> Determine the width of the new frame. Show all your work. Explain why you did each step.

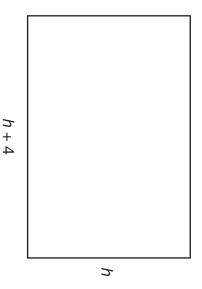
6 + 2

Student has given an incorrect answer. Student has shown no correct work. Student has given no correct explanation.

Based on Scoring Guidelines, 1 point is representative of a "minimal understanding."

A1.1.1 Response Score: 0

: Keng creates a painting on a rectangular canvas with a width that is four inches longer than the height, as shown in the diagram below.



Þ Write a polynomial expression, in simplified form, that represents the area of the canvas.

R2+4

Student has given an incorrect expression.

Keng adds a 3-inch-wide frame around all sides of his canvas.

Ē Write a polynomial expression, in simplified form, that represents the total area of the canvas and the frame.

£2+7

Student has given an incorrect expression.

<u>:</u> Continued. Please refer to the previous page for task explanation.

Keng is unhappy with his 3-inch-wide frame, so he decides to put a frame with a different width around his canvas. The total area of the canvas and the new frame is given by the polynomial $h^2 + 8h + 12$, where h represents the height of the canvas.

<u>ဂ</u> Determine the width of the new frame. Show all your work. Explain why you did each step.

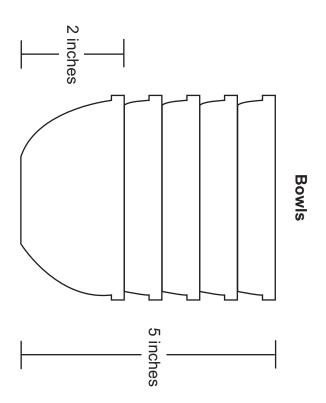
(4,3)

Student has given an incorrect answer. Student has shown no correct work. Student has given no correct explanation.

Based on Scoring Guidelines, 0 points is representative of "no understanding."

A1.1.2

12. The diagram below shows 5 identical bowls stacked one inside the other.



The height of 1 bowl is 2 inches. The height of a stack of 5 bowls is 5 inches.

- ₽ equation: Write an equation using x and y to find the height of a stack of bowls based on any number of bowls.
- <u>ω</u> Describe what the x and y variables represent.

x-variable: _____

y-variable: _____

Go to the next page to finish question 12.

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12. Continued. Please refer to the previous page for task explanation.

C. What is the height, in inches, of a stack of 10 bowls?

height: __

____inches

ITEM-SPECIFIC SCORING GUIDELINE

ITEM # 12, MODULE 1

Assessment Anchor:

This item is reported under A1.1.2 Linear Equations

Specific Eligible Content addressed by this item:

A1.1.2.1.1— Write, solve, and/or apply a linear equation (including problem situations).

A1.1.2.1.3— Interpret solutions to problems in the context of the problem situation (linear equations only).

Scoring Guide:

Score	
4	The student demonstrates a <i>thorough</i> understanding of linear equations by correctly solving problems.
ω	The student demonstrates a <i>general</i> understanding of linear equations by solving problems with only minor errors or omissions.
2	The student demonstrates a <i>partial</i> understanding of linear equations by providing a portion of the correct problem solving.
1	The student demonstrates a minimal understanding of linear equations.
0	The student does not demonstrate any understanding of linear equations.

Top Scoring Response:

(1 score point)
1 point for correct equation

Part B: What?	Why?
x-variable: the number of bowls	
y-variable: the height of the stack of bowls OR equivalent	
•	

(2 score points)

1 point for correct description of *x*-variable 1 point for correct description of *y*-variable

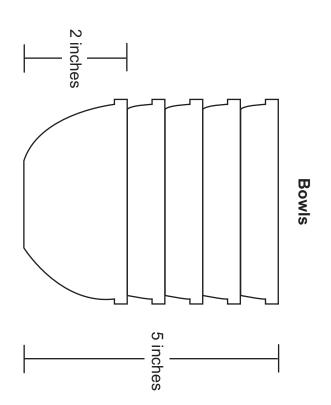
8.75 inches OR equivalent	Part C: What?	Why?
	8.75 inches OR equivalent	

(1 score point)

1 point for correct answer

A1.1.2 Response Score: 4 points

12 The diagram below shows 5 identical bowls stacked one inside the other.



The height of 1 bowl is 2 inches. The height of a stack of 5 bowls is 5 inches.

⋗ Write an equation using x and y to find the height of a stack of bowls based on any number of bowls.

equation:

-,75X+1,2=

Student has given a correct equation.

5-5(.75)
5-3:75=1.25

B. Describe what the x and y variables represent.

x-variable:

y-variable:

Student has given two correct descriptions.

- <u>12</u>. Continued. Please refer to the previous page for task explanation.
- C. What is the height, in inches, of a stack of 10 bowls?

G= 75(10) + 1.25 = 7.50+1.25

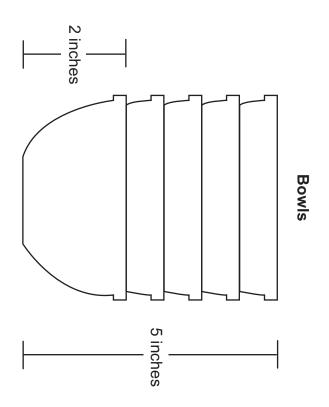
height: _____ inches

Student has given a correct answer.

Based on Scoring Guidelines, 4 points is representative of a "thorough understanding."

A1.1.2 Response Score: 3 points

12. The diagram below shows 5 identical bowls stacked one inside the other.



The height of 1 bowl is 2 inches. The height of a stack of 5 bowls is 5 inches.

⋗ Write an equation using x and y to find the height of a stack of bowls based on any number of bowls.

equation: $y = x + \lambda$

Student has given an incorrect equation.

B. Describe what the x and y variables represent.

x-variable:

e number of bowl

y-variable:

total height

Student has given two correct descriptions.

<u>12</u>. Continued. Please refer to the previous page for task explanation.

C. What is the height, in inches, of a stack of 10 bowls?

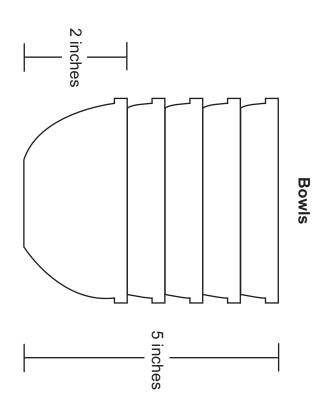
height: _____ inches

(Error is carried through correctly, so student is not penalized twice.) Student has given a "correct answer" based on an incorrect equation from Part A.

Based on Scoring Guidelines, 3 points is representative of a "general understanding."

A1.1.2 Response Score: 3 points

12 The diagram below shows 5 identical bowls stacked one inside the other.



The height of 1 bowl is 2 inches. The height of a stack of 5 bowls is 5 inches.

⋗ Write an equation using x and y to find the height of a stack of bowls based on any number of bowls.

equation:

in fraction form. Student has given a correct equation

<u></u>ω Describe what the x and y variables represent.

x-variable: Mumber

y-variable: heig

Student has given two correct descriptions.

<u>12</u>. Continued. Please refer to the previous page for task explanation.

C. What is the height, in inches, of a stack of 10 bowls?

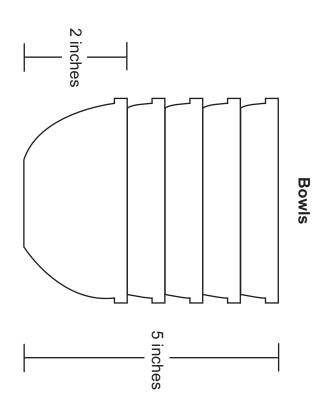
height: 12 inches

Student has given an incorrect answer.

Based on Scoring Guidelines, 3 points is representative of a "general understanding."

A1.1.2 Response Score: 2 points

12. The diagram below shows 5 identical bowls stacked one inside the other.



The height of 1 bowl is 2 inches. The height of a stack of 5 bowls is 5 inches.

⋗ Write an equation using x and y to find the height of a stack of bowls based on any number of bowls.

equation:

Student has given an incorrect equation.

<u>ω</u> Describe what the x and y variables represent.

x-variable:

y-variable:

Student has given two correct descriptions.

<u>12</u>. Continued. Please refer to the previous page for task explanation.

C. What is the height, in inches, of a stack of 10 bowls?

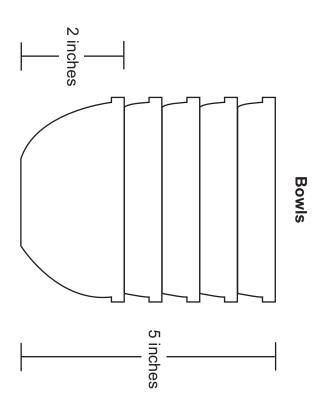
height: ______inches

Student has given an incorrect answer.

Based on Scoring Guidelines, 2 points is representative of a "partial understanding."

A1.1.2 Response Score: 2 points

12 The diagram below shows 5 identical bowls stacked one inside the other.



The height of 1 bowl is 2 inches. The height of a stack of 5 bowls is 5 inches.

⋗ Write an equation using x and y to find the height of a stack of bowls based on any number of bowls.

equation: y=1x+2

Student has given an incorrect equation.

B. Describe what the x and y variables represent.

x-variable: width of bo

y-variable: height of bowl

Student has given one incorrect description followed by one correct description.

<u>12</u>. Continued. Please refer to the previous page for task explanation.

C. What is the height, in inches, of a stack of 10 bowls?

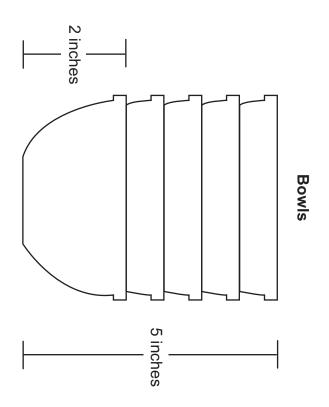
height: _____inches

(Error is carried through correctly, so student is not penalized twice.) Student has given a "correct answer" based on an incorrect equation from Part A.

Based on Scoring Guidelines, 2 points is representative of a "partial understanding."

A1.1.2 Response Score: 1 point

12 The diagram below shows 5 identical bowls stacked one inside the other.



The height of 1 bowl is 2 inches. The height of a stack of 5 bowls is 5 inches.

⋗ Write an equation using x and y to find the height of a stack of bowls based on any number of bowls.

equation: 4-2-5

Student has given an incorrect equation.

B. Describe what the x and y variables represent.

x-variable:

y-variable:

Student has given one correct description followed by one incorrect description.

<u>12</u>. Continued. Please refer to the previous page for task explanation.

C. What is the height, in inches, of a stack of 10 bowls?

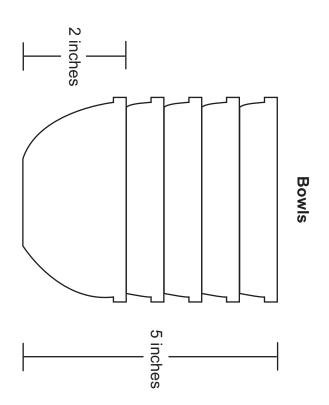
height: _____inches

Student has given an incorrect answer.

Based on Scoring Guidelines, 1 point is representative of a "minimal understanding."

A1.1.2 Response Score: 1 point

12 The diagram below shows 5 identical bowls stacked one inside the other.



The height of 1 bowl is 2 inches. The height of a stack of 5 bowls is 5 inches.

⋗ Write an equation using x and y to find the height of a stack of bowls based on any number of bowls.

equation: 4-5

Student has given an incorrect equation.

B. Describe what the x and y variables represent.

x-variable:

y-variable:

Student has given two incorrect descriptions.

Go to the next page to finish question 12.

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<u>12</u>. Continued. Please refer to the previous page for task explanation.

C. What is the height, in inches, of a stack of 10 bowls?

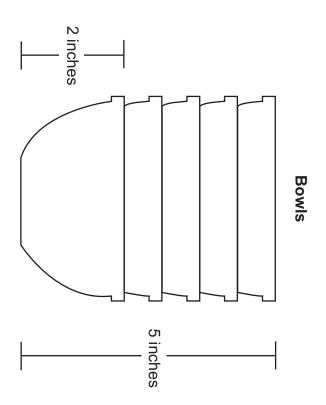
height: 8 4 inches

Student has given a correct answer.

Based on Scoring Guidelines, 1 point is representative of a "minimal understanding."

A1.1.2 Response Score: 0

12 The diagram below shows 5 identical bowls stacked one inside the other.



The height of 1 bowl is 2 inches. The height of a stack of 5 bowls is 5 inches.

⋗ Write an equation using x and y to find the height of a stack of bowls based on any number of bowls.

equation:

Student has given an incorrect equation.

<u>ω</u> y-variable: x-variable: Describe what the x and y variables represent. Student has given two incorrect descriptions.

C. What is the height, in inches, of a stack of 10 bowls?

height: _____inches

Student has given an incorrect answer.

Based on Scoring Guidelines, 0 points is representative of "no understanding."

MULTIPLE-CHOICE QUESTIONS

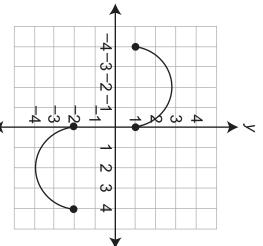
A1.2.1.1.2

1. Which graph shows y as a function of x?

₽

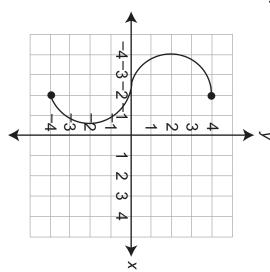
W

*

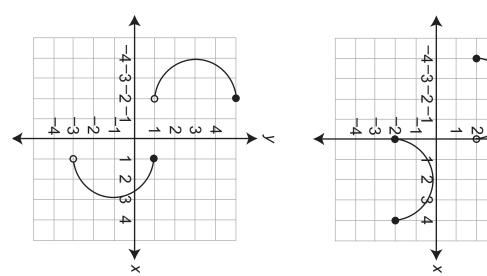


×

Ω.



D

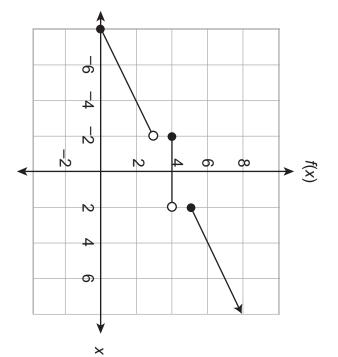


using the vertical line test. A student could determine the correct answer, option B, by examining the graphs of each of the relations and

A student could arrive at an **incorrect** answer by either not knowing the definition of a function or not knowing how to interpret closed and open circles. For example, a student would arrive at option C if he/she thought "function" meant "continuous".

A1.2.1.1.3

2. The graph of a function is shown below.



Which value is **not** in the range of the function?

- A. 0
- . ω *
- C. 4
- D.

intersects with the horizontal line y = 3. A student could determine the correct answer, option B, by examining the graph and seeing that it never

meant that there was only one value of x for each value of y. to interpret closed and open circles. For example, a student would arrive at option C if he/she thought range A student could arrive at an incorrect answer by either not knowing the definition of range or not knowing how

A1.2.1.2.J

- မှ A pizza restaurant charges for pizzas and adds a delivery fee. The cost (c), in dollars, to have any number of pizzas (ρ) delivered to a home is described by the function $c = 8\rho + 3$. Which statement is true?
- A. The cost of 8 pizzas is \$11.
- B. The cost of 3 pizzas is \$14.
- C. Each pizza costs \$8 and the delivery fee is \$3. *
- D. Each pizza costs \$3 and the delivery fee is \$8.

context of the problem situation. A student could determine the **correct** answer, option C, by interpreting the linear equation c = 8p + 3 in the

the problem situation. For example, a student would arrive at option D if he/she interpreted the cost of a pizza to be the y-intercept and the delivery fee to be the slope. A student could arrive at an **incorrect** answer by misinterpreting the linear equation c = 8p + 3 in the context of

A1.2.1.2.2

The table below shows values of y as a function of x.

34	26	14	6	2	Х	
130	100	55	25	10	У	

Which linear equation best describes the relationship between x and y?

- A. y = 2.5x + 5
- B. y = 3.75x + 2.5 *
- C. y = 4x + 1
- D. y=5x

value of x in the table to the corresponding value of y. A student could determine the correct answer, option B, by identifying the linear equation which will map every

A student could arrive at an **incorrect** answer by checking only one of the (x, y) coordinate pairs in the table. For example, a student could arrive at option A if he/she only checked to see that the equation worked when x = 2

A1.2.2.1.1

Ò Jeff's restaurant sells hamburgers. The amount charged for a hamburger, h, is based on the cost for a plain hamburger plus an additional charge for each topping, t, as shown in the equation below.

$$h = 0.60t + 5$$

What does the number 0.60 represent in the equation?

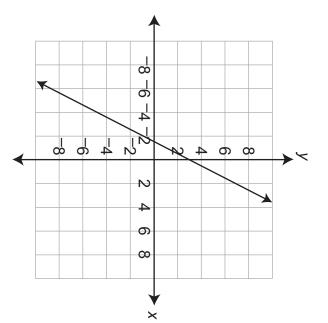
- A. the number of toppings
- B. the cost of a plain hamburger
- C. the additional cost for each topping *
- D. the cost of a hamburger with 1 topping

context of the problem situation. A student could determine the **correct** answer, option C, by interpreting the linear equation h = 0.60t + 5 in the

toppings to be the rate of change. of the problem situation. For example, a student would arrive at option A if he/she interpreted the number of A student could arrive at an **incorrect** answer by misinterpreting the linear equation h = 0.60t + 5 in the context

A1.2.2.1.3

6. A graph of a linear equation is shown below.



Which equation describes the graph?

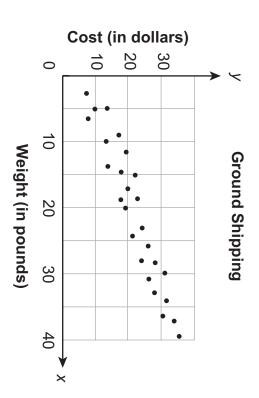
- A. y = 0.5x 1.5
- B. y = 0.5x + 3
- C. y = 2x 1.5
- D. y = 2x + 3 *

y-intercept. A student could determine the correct answer, option D, by examining the graph to obtain the slope and

A student could arrive at an **incorrect** answer by either not knowing how to find the slope or *y*-intercept of a graph. For example, a student would arrive at option C if he/she used the *x*-intercept instead of the *y*-intercept.

A1.2.2.2.1

The scatter plot below shows the cost, y, of ground shipping packages from Harrisburg, PA, to Minneapolis, MN, based on the package weight, x.



Which equation **best** describes the line of best fit?

- A. y = 0.37x + 1.57
- B. y = 0.37x + 10.11
- C. y = 0.68x + 2.32
- D. y = 0.68x + 6.61 *

fit. A student could determine the correct answer, option D, by drawing and deriving the equation of the line of best

that all of the data points are at or above the line. how to find the equation of that line. For example, a student would arrive at option C if he/she drew a line such A student could arrive at an incorrect answer by either not knowing how to draw a line of best fit or not knowing

A1.2.3.1.1

ထ္ 10 days are shown below. The daily high temperatures in degrees Fahrenheit in Allentown, PA, for a period of

Which statement correctly describes the data?

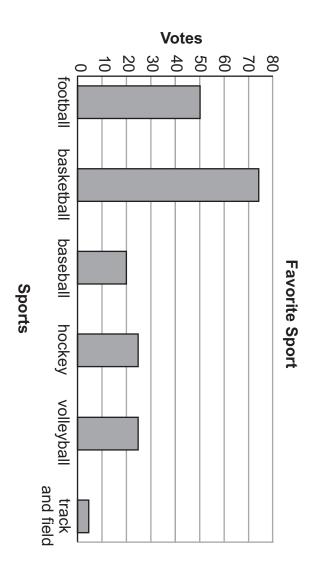
- A. The median value is 98.
- B. The interquartile range is 16. *
- C. The lower quartile value is 76.
- D. The upper quartile value is 96.

the lower half of the data, 82.98 - 82 = 16. third quartile value is the median of the upper half of the data, 98, and the first quartile value is the median of quartile. Arranging the data from lowest to highest shows that the median value is the average of 89 and 91. The A student could determine the correct answer, option B, by finding the difference between the third and first

range. For example, a student would arrive at option A if he/she confused median and mode. A student could arrive at an incorrect answer by not knowing how to use or compute median or interquartile

A1.2.3.2.1

9 bar graph below. Vy asked 200 students to select their favorite sport and then recorded the results in the



in the bar graph, how many more students of the next 80 asked will select basketball Vy will ask another 80 students to select their favorite sport. Based on the information rather than football as their favorite sport?

- A. 10 *
- B. 20
- C. 25
- D. 30
- (0.375 0.25 = 0.125) and multiply by the new sample $(0.125 \times 80 = 10)$. basketball (75 \div 200 = 0.375) and football (50 \div 200 = 0.25), subtract the difference in the probabilities A student could determine the correct answer, option A, by using the bar graph to obtain probabilities for

 $80 (0.125 \times 200 = 25).$ example, a student would arrive at option C if he/she multiplied the probability difference by 200 instead of A student could arrive at an incorrect answer by using an incorrect method or making a computational error. For

A1.2.3.3.1

- <u>10.</u> A number cube with sides labeled 1–6 is rolled two times, and the sum of the numbers that end face up is calculated. What is the probability that the sum of the numbers is 3?
- .P 18 1
- B. 1
- C. $\frac{1}{9}$
- D. - 2

or 1 and 2. There are 2 ways to get a number for the first number cube out of 6 possible outcomes, $\frac{2}{6}$, and only 1 way to get a number for the second number cube, $\frac{1}{6}$. Multiplying the probabilities together $\frac{2}{6} \times \frac{1}{6} = \frac{2}{36}$ which can be reduced to $\frac{1}{18}$. A student could determine the correct answer, option A, by realizing that the possible combinations are 2 and 1

was $\frac{2}{6}$ and that the second number cube was also $\frac{2}{6}$, then $\frac{2}{6} \times \frac{2}{6} = \frac{4}{36}$ which can be reduced to $\frac{1}{9}$. example, a student would arrive at option C if he/she decided the probability for picking the first number cube A student could arrive at an incorrect answer by using an incorrect method or making a computational error. For

CONSTRUCTED-RESPONSE QUESTIONS

A1.2.1

11. Hector's family is on a car trip

When they are 84 miles from home, Hector begins recording their distance driven each hour in the table below.

Distance by Hour

ω	2	1	0	Time in Hours
270	208	146	84	Distance in Miles

The pattern continues.

⋗ Write an equation to find distance driven in miles (a) after a given number of hours (h).

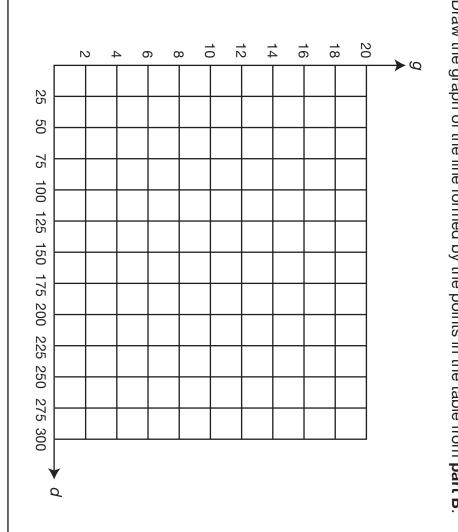
<u>m</u> be used to find the gallons of gasoline remaining (g) after distance driven (d). Hector also kept track of the remaining gasoline. The equation shown below can

$$g = 16 - \frac{1}{20}d$$

Use the equation to find the missing values for gallons of gasoline remaining.

	300
	200
	100
Gallons of Gasoline Remaining (g)	Distance Driven in Miles (d)

9 Draw the graph of the line formed by the points in the table from part B.



Ō Explain why the slope of the line drawn in part C must be negative.

ITEM-SPECIFIC SCORING GUIDELINE

ITEM # 11, MODULE 2

Assessment Anchor:

This item is reported under A1.2.1 Functions

Specific Eligible Content addressed by this item:

- A1.2.1.1.1— Analyze a set of data for the existence of a pattern and represent the pattern algebraically and/or graphically.
- A1.2.1.2.1 Create, interpret, and/or use the equation, graph, or table of a linear function.

Scoring Guide:

Score	
4	The student demonstrates a <i>thorough</i> understanding of functions by correctly solving problems with clear and complete procedures and explanations when required.
ω	The student demonstrates a general understanding of functions by solving problems and
	providing procedures and explanations with only minor errors or omissions.
J	The student demonstrates a partial understanding of functions by providing a portion of the
7	correct problem solving, procedures, and explanations.
1	The student demonstrates a minimal understanding of functions.
0	The student does not demonstrate any understanding of functions.

Top Scoring Response:

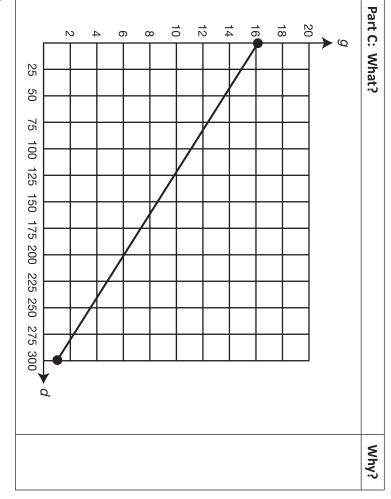
Part A: What?	Why?
d = 62h + 84 OR equivalent	

(1 score point)
1 point for correct equation

Part B: What?	Why?
11, 6, and 1	

(1 score point)

1 point for giving correct values



(1 score point)

1 point for correct graph

As the distance driven increases, the amount of gasoline remaining must	
Why?	Part D: What?

(1 score point)
1 point for correct explanation

A1.2.1 Response Score: 4 points

Hector's family is on a car trip.

When they are 84 miles from home, Hector begins recording their distance driven each hour in the table below.

Distance by Hour

Time in Hours	Distance in Miles
0	84
1	146
2	208
3	270

The pattern continues.

of hours (h). Write an equation to find distance driven in miles (a) after a given number 2000 270

Student has given a correct pount.

208

Student has given a correct equation.

<u></u>.... be used to find the gallons of gasoline remaining (g) after distance driven (d). Hector also kept track of the remaining gasoline. The equation shown below can

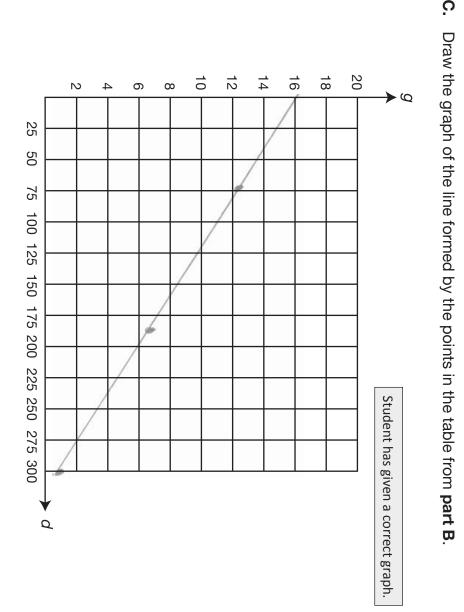
$$g = 16 - \frac{1}{20}d$$

Use the equation to find the missing values for gallons of gasoline remaining.

Distance Driven in Miles (d)	Gallons of Gasoline Remaining (g)
100	11
200	6
300	

Student has given correct values.

9 Draw the graph of the line formed by the points in the table from part B



Ō Explain why the slope of the line drawn in part C must be negative

100 57000 A300) correct explanation. Student has given a

Based on Scoring Guidelines, 4 points is representative of a "thorough understanding."

A1.2.1 Response Score: 3 points

11. Hector's family is on a car trip.

When they are 84 miles from home, Hector begins recording their distance driven each hour in the table below.

Distance by Hour

Time in Hours	Distance in Miles
1	146
2	208
3	270

The pattern continues.

⋗ Write an equation to find distance driven in miles (a) after a given number of hours (h).

Student has given a correct equation.

<u></u>. be used to find the gallons of gasoline remaining (g) after distance driven (d). Hector also kept track of the remaining gasoline. The equation shown below can

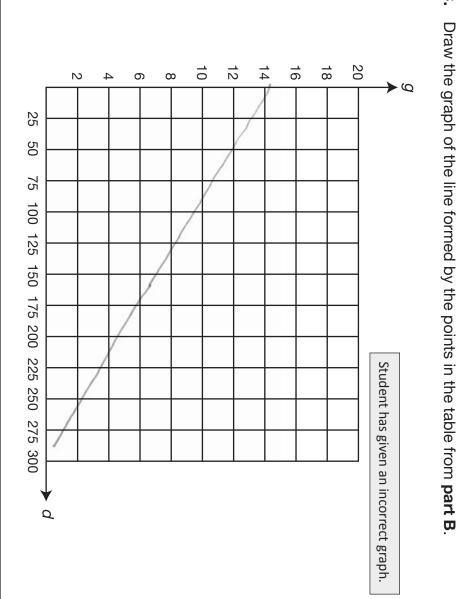
$$g = 16 - \frac{1}{20}d$$

Use the equation to find the missing values for gallons of gasoline remaining.

300	200	100	Distance Driven in Miles (d)
/	6	11	Gallons of Gasoline Remaining (<i>g</i>)

Student has given correct values.

<u>ဂ</u> Draw the graph of the line formed by the points in the table from part B



Ō Explain why the slope of the line drawn in **part C** must be negative.

Sasoline will always be decreasing as miles driven increases.

Student has given a correct explanation.

Based on Scoring Guidelines, 3 points is representative of a "general understanding."

11. Hector's family is on a car trip.

When they are 84 miles from home, Hector begins recording their distance driven each hour in the table below.

Distance by Hour

Time in Hours	Distance in Miles
0	84
1	146
2	208
3	270

The pattern continues.

⋗ Write an equation to find distance driven in miles (a) after a given number of hours (h).

J= 62h+84

Student has given a correct equation.

<u></u>. be used to find the gallons of gasoline remaining (g) after distance driven (d). Hector also kept track of the remaining gasoline. The equation shown below can

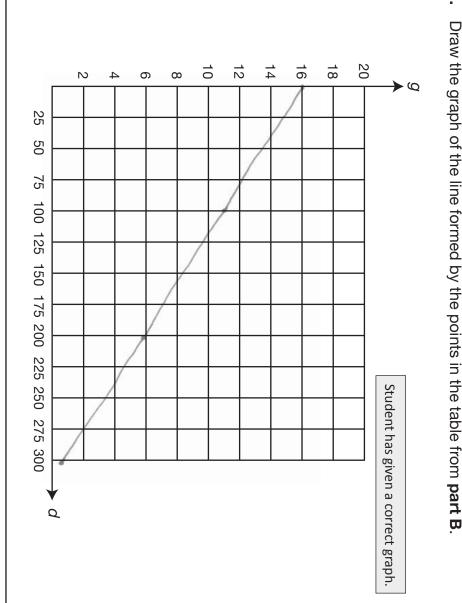
$$g = 16 - \frac{1}{20}d$$

Use the equation to find the missing values for gallons of gasoline remaining.

Remaining (g)	in Miles (d) 100 200
Gallons of	Distance Driven

Student has given correct values.

<u>ဂ</u> Draw the graph of the line formed by the points in the table from part B



Ō Explain why the slope of the line drawn in **part C** must be negative.

The slope is regative because miles go up.

Student has given an incomplete explanation.

Based on Scoring Guidelines, 3 points is representative of a "general understanding."

A1.2.1 Response Score: 2 points

Hector's family is on a car trip.

When they are 84 miles from home, Hector begins recording their distance driven each hour in the table below.

Distance by Hour

Time in Hours	Distance in Miles
0	84
1	146
2	208
3	270

The pattern continues.

⋗ of hours (h). Write an equation to find distance driven in miles (a) after a given number

Student has given an incorrect equation. Student has reversed the coefficients.

Ψ. be used to find the gallons of gasoline remaining (g) after distance driven (d). Hector also kept track of the remaining gasoline. The equation shown below can

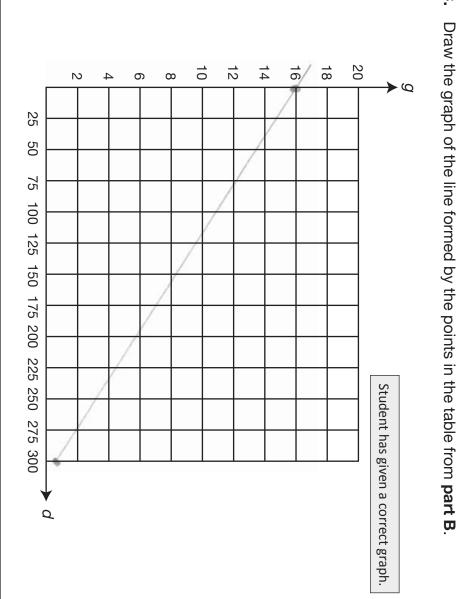
$$g = 16 - \frac{1}{20}d$$

Use the equation to find the missing values for gallons of gasoline remaining.

6	200
LL	100
Gallons of Gasoline Remaining (<i>g</i>)	Distance Driven in Miles (<i>d</i>)

Student has given correct values.

<u>ဂ</u> Draw the graph of the line formed by the points in the table from part B



Ō Explain why the slope of the line drawn in part C must be negative

It doesn't have to be negative

Student has given an incorrect explanation.

Based on Scoring Guidelines, 2 points is representative of a "partial understanding."

A1.2.1 Response Score: 2 points

11. Hector's family is on a car trip

When they are 84 miles from home, Hector begins recording their distance driven each hour in the table below.

Distance by Hour

3	2	1	0	Time in Hours
270	208	146	84	Distance in Miles

The pattern continues.

⋗ Write an equation to find distance driven in miles (a) after a given number of hours (h).

Q-146=62(h-1)

Student has given an equivalent equation.

<u></u>.... be used to find the gallons of gasoline remaining (g) after distance driven (d). Hector also kept track of the remaining gasoline. The equation shown below can

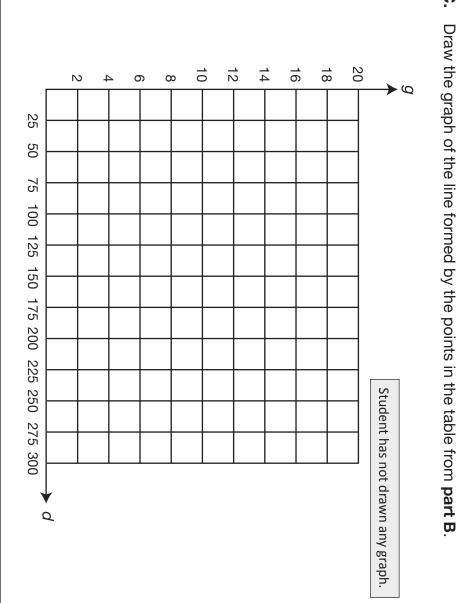
$$g = 16 - \frac{1}{20}d$$

Use the equation to find the missing values for gallons of gasoline remaining.

300	200	100	Distance Driven in Miles (<i>d</i>)
	6		Gallons of Gasoline Remaining (g)

Student has given correct values.

<u>ဂ</u> Draw the graph of the line formed by the points in the table from part B



Ō Explain why the slope of the line drawn in part C must be negative.

It isn't negative.

Student has given an incorrect explanation.

Based on Scoring Guidelines, 2 points is representative of a "partial understanding."

A1.2.1 Response Score: 1 point

11. Hector's family is on a car trip

When they are 84 miles from home, Hector begins recording their distance driven each hour in the table below.

Distance by Hour

Time in Hours	Distance in Miles
1	146
2	208
3	270

The pattern continues.

⋗ Write an equation to find distance driven in miles (a) after a given number of hours (h).

Student has given a correct equation.

<u></u>. be used to find the gallons of gasoline remaining (g) after distance driven (d). Hector also kept track of the remaining gasoline. The equation shown below can

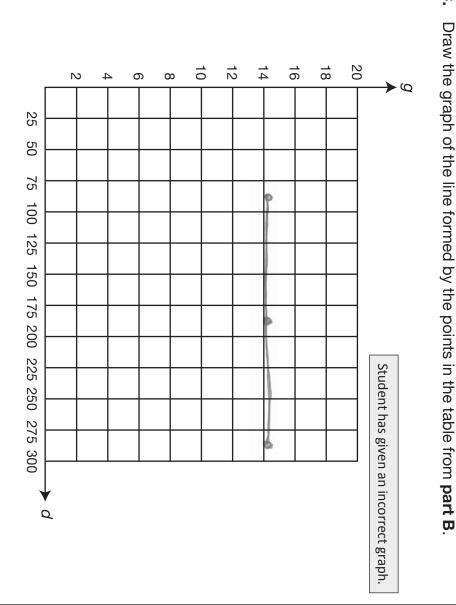
$$g = 16 - \frac{1}{20}d$$

Use the equation to find the missing values for gallons of gasoline remaining.

216	200 300
911	100
Gallons of Gasoline Remaining (<i>g</i>)	Distance Driven in Miles (<i>d</i>)

Student has given incorrect values.

<u>ဂ</u> Draw the graph of the line formed by the points in the table from part B



Ō Explain why the slope of the line drawn in part C must be negative.

It takes time to drive

Student has given an incorrect explanation.

Based on Scoring Guidelines, 1 point is representative of a "minimal understanding."

A1.2.1 Response Score: 1 point

Hector's family is on a car trip.

When they are 84 miles from home, Hector begins recording their distance driven each hour in the table below.

Distance by Hour

Time in Hours	Distance in Miles
1	146
2	208
3	270

The pattern continues.

⋗ of hours (h). Write an equation to find distance driven in miles (a) after a given number

V 178 - P

Student has given an incorrect equation.

<u></u>.... be used to find the gallons of gasoline remaining (g) after distance driven (d). Hector also kept track of the remaining gasoline. The equation shown below can

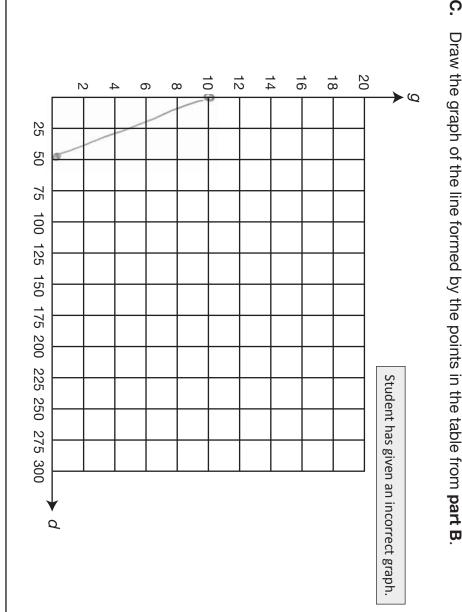
$$g = 16 - \frac{1}{20}d$$

Use the equation to find the missing values for gallons of gasoline remaining.

300	200	100	Distance Driven in Miles (d)
	6		Gallons of Gasoline Remaining (g)

Student has given correct values.

<u>ဂ</u> Draw the graph of the line formed by the points in the table from part B



Ō Explain why the slope of the line drawn in part C must be negative

It can't be positive.

Student has given an incorrect explanation.

Based on Scoring Guidelines, 1 point is representative of a "minimal understanding."

A1.2.1 Response Score: 0

Hector's family is on a car trip.

When they are 84 miles from home, Hector begins recording their distance driven each hour in the table below.

Distance by Hour

Time in Hours	Distance in Miles
1	146
2	208
3	270

The pattern continues.

⋗ of hours (h). Write an equation to find distance driven in miles (a) after a given number

Student has given an incorrect equation.

Ē be used to find the gallons of gasoline remaining (g) after distance driven (d). Hector also kept track of the remaining gasoline. The equation shown below can

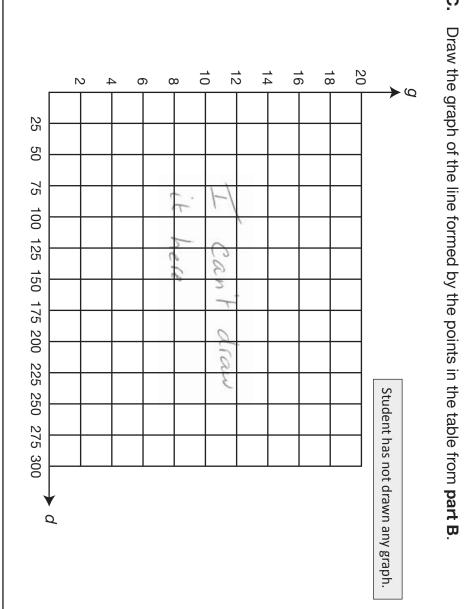
$$g = 16 - \frac{1}{20}d$$

Use the equation to find the missing values for gallons of gasoline remaining.

300	200	100	Distance Driven in Miles (d)
-284	481-	-84	Gallons of Gasoline Remaining (g)

Student has given incorrect values.

<u>ဂ</u> Draw the graph of the line formed by the points in the table from part B.



Ō Explain why the slope of the line drawn in **part C** must be negative.

answers are negative

Student has given an incorrect explanation.

Based on Scoring Guidelines, 0 points is representative of "no understanding."

A1.2.3

12. The weight (in pounds) of each wrestler on the high school wrestling team at the beginning of the season is listed below.

A. What is the median weight of the wrestlers?

median: _____ pounds

B. What is the mean weight of the wrestlers?

mean: _____ pounds

Two more wrestlers join the team during the season. The addition of these wrestlers has no effect on the mean weight of the wrestlers, but the median weight of the wrestlers increases 3 pounds.

C. Determine the weights of the two new wrestlers.

new wrestlers:

pounds and

pounds

ITEM-SPECIFIC SCORING GUIDELINE

ITEM # 12, MODULE 2

Assessment Anchor:

This item is reported under A1.2.3 Data Analysis

Specific Eligible Content addressed by this item:

A1.2.3.2.2— Analyze data, make predictions, and/or answer questions based on displayed data (box-and-whisker plots, stem-and-leaf plots, scatter plots, measure of central tendency, or other representations).

Scoring Guide:

Score	
4	The student demonstrates a thorough understanding of data analysis by correctly solving
1	problems.
υ	The student demonstrates a general understanding of data analysis by solving problems with
Ĺ	only minor errors or omissions.
J	The student demonstrates a partial understanding of data analysis by providing a portion of
7	the correct problem solving.
1	The student demonstrates a minimal understanding of data analysis.
0	The student does not demonstrate any understanding of data analysis.

Top Scoring Response:

Part A: What?	Why?
146	

(1 score point)

1 point for correct answer

Part B: What?	Why?
153	

(1 score point)

1 point for correct answer

Part C: What?	Why?
148 & 158	

(2 score points)

- 1 point for a response that leads to correct median 1 point for a response that leads to correct mean

A1.2.3 Response Score: 4 points

12 The weight (in pounds) of each wrestler on the high school wrestling team at the beginning of the season is listed below.

A. What is the median weight of the wrestlers?

median:

Student has given a correct answer.

B. What is the mean weight of the wrestlers?

+1441 + 121 +641 +

mean: _____ pounds

Student has given a correct answer.

12 Continued. Please refer to the previous page for task explanation.

wrestlers increases 3 pounds. has no effect on the mean weight of the wrestlers, but the median weight of the Two more wrestlers join the team during the season. The addition of these wrestlers

<u>ဂ</u> Determine the weights of the two new wrestlers.

153+153=306

new wrestlers: pounds and pounds

leads to the correct median and mean. Student has given a response which

Based on Scoring Guidelines, 4 points is representative of a "thorough understanding."

A1.2.3 Response Score: 3 points

12 The weight (in pounds) of each wrestler on the high school wrestling team at the beginning of the season is listed below.

A. What is the median weight of the wrestlers?

median: 140 pounds

Student has given a correct answer.

B. What is the mean weight of the wrestlers?

mean: __

155 pounds

Student has given a correct answer.

<u>1</u>2. Continued. Please refer to the previous page for task explanation.

wrestlers increases 3 pounds. has no effect on the mean weight of the wrestlers, but the median weight of the Two more wrestlers join the team during the season. The addition of these wrestlers

C. Determine the weights of the two new wrestlers.

new wrestlers: pounds and -2 pounds

Student has given a response that does not lead to a correct median. Student has given a response that leads to a correct mean.

Based on Scoring Guidelines, 3 points is representative of a "general understanding."

A1.2.3 Response Score: 3 points

12 The weight (in pounds) of each wrestler on the high school wrestling team at the beginning of the season is listed below.

A. What is the median weight of the wrestlers?

median: 146 pounds

Student has given a correct answer.

B. What is the mean weight of the wrestlers?

mean: 1/2

pounds

Student has given a correct answer.

<u>1</u>2. Continued. Please refer to the previous page for task explanation.

wrestlers increases 3 pounds. has no effect on the mean weight of the wrestlers, but the median weight of the Two more wrestlers join the team during the season. The addition of these wrestlers

C. Determine the weights of the two new wrestlers.

new wrestlers: pounds and pounds

Student has given a response that does not lead to a correct mean. Student has given a response that leads to a correct median.

Based on Scoring Guidelines, 3 points is representative of a "general understanding."

A1.2.3 Response Score: 2 points

12 The weight (in pounds) of each wrestler on the high school wrestling team at the beginning of the season is listed below.

A. What is the median weight of the wrestlers?

median: 146 pounds

Student has given a correct answer.

B. What is the mean weight of the wrestlers?

mean:

pounds

Student has given a correct answer.

<u>1</u>2. Continued. Please refer to the previous page for task explanation.

wrestlers increases 3 pounds. has no effect on the mean weight of the wrestlers, but the median weight of the Two more wrestlers join the team during the season. The addition of these wrestlers

C. Determine the weights of the two new wrestlers.

new wrestlers: pounds and pounds

Student has given a response that does not lead to a correct median. Student has given a response that does not lead to a correct mean.

Based on Scoring Guidelines, 2 points is representative of a "partial understanding."

A1.2.3 Response Score: 2 points

12 The weight (in pounds) of each wrestler on the high school wrestling team at the beginning of the season is listed below.

Þ What is the median weight of the wrestlers?

median: _ pounds

Student has given an incorrect answer.

. What is the mean weight of the wrestlers?

mean: _

. pounds

Student has given a correct answer.

<u>1</u>2. Continued. Please refer to the previous page for task explanation.

wrestlers increases 3 pounds. has no effect on the mean weight of the wrestlers, but the median weight of the Two more wrestlers join the team during the season. The addition of these wrestlers

C. Determine the weights of the two new wrestlers.

new wrestlers: pounds and pounds

Student has given a response that does not lead to a correct median. Student has given a response that leads to a correct mean.

Based on Scoring Guidelines, 2 points is representative of a "partial understanding."

A1.2.3 Response Score: 1 point

12 The weight (in pounds) of each wrestler on the high school wrestling team at the beginning of the season is listed below.

A. What is the median weight of the wrestlers?

median: 146 pounds

Student has given a correct answer.

B. What is the mean weight of the wrestlers?

mean:

_____ pounds

Student has given an incorrect answer.

Pennsylvania Keystone Algebra I Item Sampler 2011

<u>1</u>2. Continued. Please refer to the previous page for task explanation.

wrestlers increases 3 pounds. has no effect on the mean weight of the wrestlers, but the median weight of the Two more wrestlers join the team during the season. The addition of these wrestlers

C. Determine the weights of the two new wrestlers.

new wrestlers: pounds and pounds

has given a response that does not lead to a con

Student has given a response that does not lead to a correct median. Student has given a response that does not lead to a correct mean.

Based on Scoring Guidelines, 1 point is representative of a "minimal understanding."

A1.2.3 Response Score: 1 point

12 The weight (in pounds) of each wrestler on the high school wrestling team at the beginning of the season is listed below.

A. What is the median weight of the wrestlers?

median: 150 pounds

Student has given an incorrect answer.

B. What is the mean weight of the wrestlers?

mean:

pounds

Student has given a correct answer.

Go to the next page to finish question 12.

<u>1</u>2. Continued. Please refer to the previous page for task explanation.

wrestlers increases 3 pounds. has no effect on the mean weight of the wrestlers, but the median weight of the Two more wrestlers join the team during the season. The addition of these wrestlers

C. Determine the weights of the two new wrestlers.

new wrestlers: - pounds and pounds

Student has given a response that does not lead to a correct median. Student has given a response that does not lead to a correct mean.

Based on Scoring Guidelines, 1 point is representative of a "minimal understanding."

A1.2.3 Response Score: 0

12 The weight (in pounds) of each wrestler on the high school wrestling team at the beginning of the season is listed below.

A. What is the median weight of the wrestlers?

median: 142 pounds

Student has given an incorrect answer.

B. What is the mean weight of the wrestlers?

mean:

: _____ pounds

Student has given an incorrect answer.

<u>1</u>2. Continued. Please refer to the previous page for task explanation.

wrestlers increases 3 pounds. has no effect on the mean weight of the wrestlers, but the median weight of the Two more wrestlers join the team during the season. The addition of these wrestlers

C. Determine the weights of the two new wrestlers.

new wrestlers: pounds and . pounds

Student has given a response that does not lead to a correct median. Student has given a response that does not lead to a correct mean.

Based on Scoring Guidelines, 0 points is representative of "no understanding."

KEYSTONE EXAMS ALGEBRA I 2011

ITEM AND SCORING SAMPLER

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ALGEBRA I

SPRING 2015 ONLINE EXAM

ONLINE DIRECTIONS FOR ADMINISTRATION MANUAL

MAY 2015

Pennsylvania Keystone Exams

Spring 2015 Online Exam Algebra I

Exam Security Reminder

- student taking the exam during the test session. No person is to read or view the contents of an exam at any time except the
- If you suspect a test security violation, consult the School Assessment (PDE) at (717) 787-4234. Coordinator (SAC) or contact the Pennsylvania Department of Education

General Responsibility Summary for the Test Administrator (TA)

The Test Administrator (TA) is responsible for the following tasks:

- taking the Pennsylvania State Test Administration Training (PSTAT) online module
- the Online Directions for Administration Manual becoming familiar with the online test administration procedures and online testing tools provided in
- receiving Student Login Tickets (Test Tickets) from the School Assessment Coordinator on the scheduled
- verifying that student demographic information is correct on the Student Login Roste
- alerting the School Assessment Coordinator if any student demographic information is incorrect and needs to be changed
- distributing the Test Tickets to the students at the time of the test
- monitoring the testing environment during the scheduled testing time
- collecting, accounting for, and returning all Test Tickets, as well as scratch/grid paper, to the School Assessment Coordinator
- reviewing and understanding the Test Administrator/Proctor Test Security Certification and returning the signed form to the School Assessment Coordinator after the administration of any Keystone Exam

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INTRODUCTION

manual provides the Test Administrator with directions that will ensure a standard assessment environment in (May 13-27, 2015). familiar with this manual and the procedures for administering the exam before the testing window assessments the Test Administrator has given; therefore, Test Administrators are to become thoroughly schools throughout the Commonwealth of Pennsylvania. The administration of this exam may differ from other This manual is to be used for the administration of the Keystone Algebra I Spring 2015 Online Exam. The

MAINTAIN EXAM SECURITY

following: in accordance with security mandates and other general procedures. These include, but are not limited to, the responsibility for ensuring that all materials and student responses are handled securely, confidentially, and involved in this assessment program must maintain the security of all exam materials. Together, they share the District and School Assessment Coordinators, Test Administrators, principals, and all other individuals who are

- Online exams are not to be viewed by anyone, including Test Administrators or Proctors, prior to the
- Except where allowed by a specific written accommodation, only students being tested are allowed to view the content of the online exam materials.
- No materials from the online exam may be copied, photographed, or recorded in any manner.
- The student may not review responses at any time other than during the administration of the exam.

of the testing window, all Test Tickets must be accounted for and returned to the School Assessment Coordinator. return of exam materials (see Part V of this document for a complete list of materials) after the session. At the end designee (known as the School Assessment Coordinator [SAC]) will make arrangements for the Test Administrator the secure test materials before the administration day; however, this manual is not considered secure test material the assessments, must be returned to the School Assessment Coordinator immediately at the end of each session In addition, all other materials assigned to the Test Administrator, including any scratch/grid paper used during to receive the Test Tickets on the day of the exam, just prior to the scheduled test session, and for the immediate and should be provided to Test Administrators for review prior to the exam administration. The principal or his/her Secure materials must never be left unattended or in open areas. Test Administrators must not be given access to Test Tickets must be kept in a predetermined, locked, secure storage area at both the district and school levels. the secure login credentials (i.e., username and password) required for a student to use the testing software. The Each student taking the Keystone Exam online will receive a **Student Login Ticket (Test Ticket)**. This ticket provides

the Professional Educator Discipline Act, 24 P.S. § 2070.1a et seq, including a private reprimand, a public reprimand, the integrity of the state assessment system in any manner will be subject to professional disciplinary action under violation of exam security.¹ Those individuals who divulge exam questions, falsify student scores, or compromise use of old Pennsylvania assessments as preparation tools, etc.) is strictly prohibited and will be considered a not limited to, group work, teacher coaching, teaching or release of the performance tasks or exam questions, Department of Education (PDE). Any deviation from the exam procedures outlined in this manual (including, but the integrity of the assessment remains above reproach, see the Ethical Standards of Test Administration, found in prohibition from being employed by a charter school. For more information regarding guidelines to ensure that a suspension of their teaching certificate(s), a revocation of their teaching certificate(s), and/or a suspension or The Pennsylvania Keystone Exams are a measure of individual student achievement conducted by the Pennsylvania Appendix A of this manual and in the Keystone Exams Handbook for Assessment Coordinators.

This prohibition excludes the item and scoring samplers (released items)

certifies that all security measures for the Keystone Exams were maintained, including, but not limited to Exam must sign and date a Test Administrator/Proctor Test Security Certification. The Test Security Certification After administering any Keystone Exam, every Test Administrator involved in the administration of this Keystone

- following test security regulations and procedures,
- handling secure assessment materials appropriately, and
- maintaining confidentiality of information contained within secure assessment materials

of the Keystone Exams in any way, the Test Administrator must read and understand the Test Administrator/Proctor administration of this Keystone Exam. Prior to receiving any exam materials or participating in the administration Coordinator will distribute copies of this certification to all Test Administrators and Proctors involved in the School Assessment Coordinator. Test Security Certification. Upon completion of the exam administration, the signed form must be returned to the Exams Handbook for Assessment Coordinators. Prior to the administration of the exam, the School Assessment A copy of the Test Administrator/Proctor Test Security Certification is provided in Appendix C and in the Keystone

FOLLOW THE EXAM SCHEDULE SET BY THE SCHOOL ASSESSMENT COORDINATOR

include an adequate number of computer terminals. Other settings may be used according to local needs and assigned by the School Assessment Coordinator. Appropriate exam conditions optimize the chance for greater available facilities. However, exam situations created to inflate assessment scores are a violation of exam-security accuracy of the scores. Since this exam is to be administered online, the classroom or computer lab settings must The Keystone Algebra I Spring 2015 Online Exam must be administered within the testing window on the dates

a separate exam session. Since the Keystone Exams are untimed, there may be instances in which the actual testing to be completed in the same amount of administration time. See Part II: Exam Timing for more information on morning and afternoon of the same day. The School Assessment Coordinator must discuss the schedule with the morning (or in the afternoon). Instead, the exam modules must be divided across two days or divided across the times take longer than the recommended testing time. Exam modules must not be scheduled back-to-back in the The Keystone Algebra I Spring 2015 Online Exam consists of two modules, and each module must be scheduled as administration time and testing time. Test Administrators at least one week prior to the exam dates. Please note that each module in this exam is designed

ADVANCE CONSIDERATIONS FOR EXAM ADMINISTRATION

exam includes procedures that students may not have encountered before. The procedures listed below must be followed before administering the Algebra I Spring 2015 Online Exam. This

- The School Assessment Coordinator will receive a Keystone Exams Handbook for Assessment Coordinators that provides additional, detailed information about the exam. This document is posted on these portals:
- https://pa.drcedirect.com [Click on "Documents" under the "General Information" tab.]
- www.education.state.pa.us [Click on the green check mark and select "Keystone Exams."] 💌
- the day of the administration, the School Assessment Coordinator will allow the Test Administrator to review The entire Online Directions for Administration Manual (this document) must be read in advance in order to the Keystone Test Ticket information. Prior to the exam administration, the Test Administrator must do the become familiar with the procedures for administering the online exam. Just prior to the exam session on
- Become familiar with the exam schedule and the procedures for allowing extended exam time
- Follow the directions of the School Assessment Coordinator for maintaining exam security.
- Plan sufficient time for distribution and collection of materials.

- Post a "Testing—Do Not Disturb" sign on the door(s) to the classroom to indicate that an exam session is taking place. A quiet, calm atmosphere is essential for concentration on the task.
- as to minimize potential security concerns. existing computer stations may require repositioning some workstations to avoid this interaction, as well Plan to arrange student seating to prevent student interaction during the exam sessions. The location of
- Optional: Prepare copies of the Keyboard Shortcuts for System (see Appendix H), the Online Calculator those students that may want them. Shortcuts (see Appendix I), and the Algebra I Constructed-Response Scoring Guidelines (see Appendix E) for
- and functionality. See Part III of this document for more information. View the Student Tutorial and take the Online Tools Training to become familiar with the online testing tools
- Review the Exam Directions that students will have access to during the exam administration. See Appendix D for more information.
- Review the software tools and features related to the Pause/Exit Function, Interrupted Testing, and Unplanned Test Inactivity. See Appendix F for more information.
- Prior to the first scheduled exam session, confirm that PA Online Assessment software is installed on computers who need the read-aloud accommodation. Contact the School Assessment Coordinator for more information to be used for testing. Confirm that the text-to-speech software is installed on computers to be used by students

Remember:

- Assessment Coordinator. Test Tickets are supplied for each student; however, if any student does not have a Test Ticket, notify the School
- your School Assessment Coordinator for more information). Review and understand the Test Administrator/Proctor Test Security Certification found in Appendix C (contact
- successfully signs in to the online testing engine. This exam includes multiple test forms. One of these forms will be assigned to each student when he or she
- Guidelines for English Language Learners. These documents are posted on these portals: Be aware of test accommodations ("Test Administrator transcribed student responses," "Extended time," etc.) that are outlined in the 2015 PSSA and Keystone Accommodations Guidelines and in the 2014–15 Accommodations
- https://pa.drcedirect.com [Click on "Documents" under the "General Information" tab.]
- www.education.state.pa.us [Click on the green check mark and select "Keystone Exams."]
- If an exam security violation is suspected, contact the School Assessment Coordinator or the Pennsylvanian security violation is suspected, contact the School Assessment Coordinator or the Pennsylvanian security violation is suspected, contact the School Assessment Coordinator or the Pennsylvanian security violation is suspected, contact the School Assessment Coordinator or the Pennsylvanian security violation is suspected, contact the School Assessment Coordinator or the Pennsylvanian security violation is suspected, contact the School Assessment Coordinator or the Pennsylvanian security violation is suspected, contact the School Assessment Coordinator or the Pennsylvanian security violation is suspected as the School Assessment Coordinator or the Pennsylvanian security violation security violatioDepartment of Education [(717) 787-4234] immediately.

PREPARE THE STUDENTS FOR THE EXAM

- Inform students in advance of the schedule for the exam sessions, as communicated by the School Assessment Coordinator.
- Explain to students that they will have the opportunity to become familiar with features of the online test by taking a Test Tutorial and by completing the Online Tools Training.
- Each student should know his or her PAsecureID. Students are asked to confirm their PAsecureID when Coordinator. logging in to the online testing system. For more information on PAsecureID, contact the School Assessment
- distributing assessment materials and shall return them upon completion of the assessment to leave such items at home on exam days. The Test Administrator must collect all such devices prior to during the administration of the exam. Students must be informed of this policy in advance and encouraged Students will not be permitted to have cell phones, cameras, or any other electronic devices in their possession
- In addition, PDE encourages school districts and schools to inform students before testing of the locally not limited to, sanctions associated with determined ramifications/sanctions for student misconduct during the Keystone Exams. This includes, but is
- cheating and
- sharing and/or reproduction of test content.
- students understand the importance of each point in the code of conduct before testing begins. Prior to the ensure that all students understand this code of conduct. Administrator has reviewed with them. Test Administrators should answer any questions that students have to administration, students must indicate that they understand the Code of Conduct for Test Takers that their Test Handbook for Assessment Coordinators, with all students prior to the scheduled exam time. It is essential that Discuss the Code of Conduct for Test Takers, found in Appendix B of this manual and in the Keystone Exams
- they must record their answers online. All scratch/grid paper must be collected and returned to the School features available with the Keystone Online Assessment Software. They may also use scratch/grid paper, but Students must use the online test to respond to the test questions. There is no printed test booklet or answer Assessment Coordinator at the conclusion of each module. booklet used with any Keystone Online Exam. Students may highlight or make notes or comments using the
- record their answers using a mouse or key commands to select answer options. questions and answer options are displayed on the computer screen. Students will read the questions and This exam includes questions that require students to select from four possible answers. These multiple-choice
- and record their response using a mouse, key commands, and a combination of online tools and corresponding response spaces are displayed on the computer screen. Students will read each question This exam includes questions that require students to type their responses. The constructed-response questions
- school. (Scientific calculators and graphing calculators are optional but recommended.) Note: Students Appendix I of this manual. This document is also posted on these portals: may not share calculators during the exam. For more information, see the Pennsylvania Calculator Policy in tool) are provided during testing, but students may use their own calculators or calculators provided by the Students may use calculators on this exam. Online calculators (including a scientific calculator and a graphing
- https://pa.drcedirect.com [Click on "Documents" under the "General Information" tab.]
- www.education.state.pa.us [Click on the green check mark and select "Keystone Exams."]



Partl

dictionaries that translate native language to English or English to native language. Bilingual/translation Students may not use a dictionary or a thesaurus for any part of this exam. Note: an exception is for English dictionaries that include word definitions or pictures are not allowed. Language Learners (ELLs) taking any portion of the exam. They may use word-to-word bilingual/translation

		•		•			•	
	the Pennsylvania Calculator Policy (see Appendix I).	use a calculator on the exam in accordance with	features available online.	highlight and make notes or comments using the	the exam.)	create their own graphic organizers, etc., during	use scratch/grid paper. (Students may use it to	Students are permitted to
•						•	•	
possess or use dictionaries (with the exception of ELL students), thesauri, and spell- or grammar checkers when responding to any part of the exam.	responding to any part of the exam.	entertainment devices, smart watches) when	access (e.g., tablets, MP3 players, gaming systems,	any mobile device with a camera and/or Internet	cameras, any type of unauthorized computer, or	possess or use cell phones, smart phones,	use preprinted graphic organizers.	Students are NOT permitted to

PREPARE THE CLASSROOM OR COMPUTER LAB PRIOR TO THE EXAM

exam proceed smoothly. Good organization of exam materials and well-executed procedures will make the administration of the online

- Make certain that the testing software has been installed on all computers being used during testing
- Please see the School Assessment Coordinator if you have any questions. Make certain that all monitoring capabilities have been disabled on all computers being used during testing.
- Remove or cover all classroom instructional materials that may affect the validity of the Keystone Online Exam

DO NOT DISPLAY:

- mathematics terms and/or definitions
- mathematics rules and properties
- examples of problems and answers
- multiplication tables

- instructions on how to use a calculator
- illustrations or drawings of geometric shapes, algorithms, algebraic equations, graphs, number lines, etc.

Note: This is not an exhaustive list. These are general examples of what is not permitted. Any materials that may contain content that could be tested must be removed or covered.

the Online Assessment Software. This document is also posted on these portals: provided to each student for personal use during the exam.) They are also available online during testing within displayed in the classroom. (The scoring guidelines are contained in Appendix E of this document and may be The Algebra I Constructed-Response Scoring Guidelines used for Algebra I constructed-response questions may be

- https://pa.drcedirect.com [Click on "Documents" under the "General Information" tab.]
- www.education.state.pa.us [Click on the green check mark and select "Keystone Exams."]

Students must not be permitted to sharpen pencils during the exam sessions. Extra pencils must be available for Posting a "Testing—Do Not Disturb" sign on the door(s) to the classroom indicates that an exam is in session. student interaction during the exam sessions. Disturbances must be kept to a minimum during the exam sessions. A quiet, calm atmosphere is essential for concentration on the exam. Student seating must be arranged to prevent the students

REQUIRED EXAM MATERIALS

Username is the student's PAsecureID. student test materials used with any Keystone Online Exam. After each administration, return the Test Tickets to the (Test Ticket). These Test Tickets will be provided prior to the test administration. There are no other preprinted School Assessment Coordinator. Note that every Test Ticket has a unique Username and a unique Password. The Assessment Coordinator for more information.) Each student taking the assessment requires a Student Login Ticket The testing software should be installed on all computers prior to the start of testing. (Contact the School

of the secure testing materials and must be returned to the School Assessment Coordinator for secure storage and destruction upon completion of the online exam. be copied from this book and reproduced as necessary. The copies of these keyboard shortcuts are considered part Keyboard shortcuts are available for students to use. These shortcuts are provided in Appendices H and I and may

ORGANIZE THE EXAM MATERIALS

For the person administering the assessment:
□ One Online Directions for Administration Manual (this manual)
☐ Testing—Do Not Disturb sign(s) to hang on the door(s)
\square A Student Login Roster (includes a Test Ticket for each student taking a Keystone Online Exam)
For each student being tested:
$\ \square$ A computer terminal with the testing software installed
□ Scratch/grid paper for each module
☐ A pencil for use with the scratch/grid paper
□ A Student Login Ticket (Test Ticket)
Optional materials for each student being tested:
□ A copy of the <i>Keyboard Shortcuts for System</i> (see Appendix H)
☐ A copy of the Algebra I Constructed-Response Scoring Guidelines (see Appendix E)
\square Calculators and/or Online Calculator Shortcuts for students taking the Algebra I Online Exam (see Appendix I) ²

www.education.state.pa.us [Click on the green check mark and select "Keystone Exams."]



the exam. For more information, see the Pennsylvania Calculator Policy in Appendix I of this manual. This document is also Students may use calculators on this exam. Online calculators (including a scientific calculator and a graphing tool) are posted on these portals: calculators and graphing calculators are optional but recommended.) Note: Students may not share calculators during provided during testing, but students may use their own calculators or calculators provided by the school. (Scientific

https://pa.drcedirect.com [Click on "Documents" under the "General Information" tab.]

STUDENT LOGIN TICKETS (TEST TICKETS) AND THE STUDENT LOGIN ROSTER

appropriately. The Test Tickets for a given testing session are part of the Student Login Roster. The roster is printed Login Tasks are included in Appendix G. provides a list of students who are registered as part of a specific test session to participate in a specific test. The session information such as the administration name, test session name, and the name of the test. In addition, it by the School Assessment Coordinator (SAC) and distributed on the day of the test. The roster summarizes test Test Ticket is required to use the online testing system. These Test Tickets are secure materials and must be treated Student Login Roster contains a list of tasks that the Test Administrator will perform prior to testing. These Student A Test Ticket contains unique login credentials used by the student to access the testing software. An individual

student receives the correct Test Ticket prior to student testing. Note: The Username on the login ticket is the student's PAsecureID and can be used to verify that each

TEST MANAGEMENT CONCERNS

Some circumstances during testing require that the Test Administrator consult the School Assessment Coordinator following: (SAC) or contact the District Assessment Coordinator (DAC). Those instances include, but are not limited to, the

- a student cheating
- test security violation

- improper test administration
- student illness (during testing)

PART II: EXAM TIMING

GENERAL ORGANIZATION OF THE EXAM

space. Each module is designed to be completed in the same amount of administration time. Administration times one week prior to the exam dates. Enough time must be scheduled for the preparation of the computers and testing exam session. The School Assessment Coordinator must discuss the schedule with the Test Administrator at least provided below are approximate and are supplied for scheduling purposes only. The Algebra I Spring 2015 Online Exam consists of **two modules**, and each module must be scheduled as a separate

85–90	75	10–15	4	23	2	Algebra l
85–90	75	10–15	4	23	1	Algebra I
d (in minutes) Total Administration	me Needed Actual Exam	Estimated Time Needed (in Administrative Actual Tasks Exam Ad	Constructed- Response Questions	Multiple- Choice Questions	Module	Course

CODE OF CONDUCT FOR TEST TAKERS

The Code of Conduct for Test Takers provides students with guidelines that students should follow before, during, and after each assessment. This code of conduct must be reviewed with all students in advance of the testing day. Prior to taking the assessment, students will be asked to darken a circle to indicate that they understand the Code students understand each point in this code of conduct. that the Code of Conduct for Test Takers is reviewed with all students and all questions are answered such that all of Conduct for Test Takers that has been reviewed with them by their Test Administrator (or teacher). It is important

COMMUNICATE EXAM INFORMATION

the current exam module (test session) should be posted. posted on a chalkboard or dry-erase board during each individual module testing session. Only information about During the exam, students are to respond to a specific set of exam questions. The following information must be

Algebra I Online Exam

Exam Questions 1–27	Exam Questions 1–27
Module 2	Module 1
Algebra I	Algebra I

In addition to the above information, also post the **Test Session** name. Students will be asked to confirm the Roster to be provided by the School Assessment Coordinator on the day of testing. <u>Test Session name when they sign in to an assessment.</u> The Test Session name is printed on the Student Login

EXTENDED EXAM TIME

he or she works slowly. It is equally important, however, to encourage students to work in a timely manner to exam module, end the module. Students should then return to regular activities. exam situations should be arranged for these students. When all students have indicated they have finished an as defined by their IEP or service contracts) and students who just work slowly may require extended time. Special finished. Students with special requirements and/or abilities (i.e., physical, visual, auditory, or learning disabilities have finished the assessment. Students who finish early may sit quietly or read for pleasure until all students have finish the exam. Students should select the Review/End Test button and follow the onscreen directions when they Students should not feel rushed while they are taking the exam, and no student should be penalized because This Keystone Online Exam is an untimed assessment. Not all students will finish the exam at the same time

should be granted if the Test Administrator finds the request to be educationally valid. Not permitting ample time for students to complete the exam module may impact performance. Students may request extended time if they indicate they have not completed an exam module. Such requests

If a student needs to move to a new location to continue the assessment, the student should select the **Pause** button located at the bottom of the screen. As the student has not completed the assessment, he or she <u>should not</u> select **End Test**. For more information, see Appendix F of this manual.

As a general guideline, the exam session should be closed when all students indicate they have finished an exam module.

All students should complete a module within one school day, and modules must be scheduled so that there is enough time to complete the module within the school day.

In rare circumstances (e.g., illness, emergency), students may be required to complete the module the next day. If a student must continue the module the next day, he or she may use the same Student Login Ticket (Test Ticket) to sign in to the test. However, the Student Login Ticket (Test Ticket) must be **Unlocked** before the student will have access to the test.

- > Contact the School Assessment Coordinator for more information if these circumstances occur.
- Students completing the module the next day must be monitored closely to ensure that no previous answers are changed.

Since the Keystone Exams are untimed, there may be instances in which the actual testing times take longer than the recommended testing time. Exam modules must **not** be scheduled back-to-back in the morning (or in the afternoon). Instead, the exam modules must be divided across two days or divided across the morning and afternoon of the same day.

For example, do not schedule both Module 1 and Module 2 testing events to occur during the same morning. Rather, schedule Module 1 testing for a morning and schedule Module 2 testing either the afternoon of the same day or sometime the following day.

PART II: EXAM TIMING

moved to a different room and computer to finish a session. The only other reasons for students to Pause and strictly limited to situations that cannot be avoided or are educationally valid. (e.g., nurse's office for illness/medical attention, unexpected fire drill). The Pause and Exit action must be Exit are for approved absences from the testing room that span longer than the timeout for test inactivity during a session. The most common reason is that a student requires extended testing time and needs to be Important Reminder: There are certain scenarios for which a student will need to Pause and Exit the test

if it is determined that the student exited the test to access any information to give the student a testing approval are violating test security. Any such violation must be addressed immediately and reported to PDE times. Students who exit and reenter the assessment during the administration of a section without explicit The testing room must be closely monitored to ensure that students remain logged in to the assessment at all

PDE has DRC (the test contractor) prepare a report on excessive logins by the same student to an online excessive login report regarding any of your students is questioned. assessment. Please keep a record of system failures such as the loss of the Internet, etc., in the event an

When allowing extended time for an exam session for a portion of the student population:

- original exam session and the extended exam session. Do not allow students to attend a lunch period with other students if the lunch period occurs between the
- Do not allow students to attend any classes or related activities between the original exam session and the extended exam session.
- Do not allow any overnight extensions.
- **Do not** allow students to return to a module after the completion of that module

Do not allow the extended exam session to be administered without monitoring. It is the responsibility of a Test Administrator to monitor any extended exam session, wherever that session is held.

KEYSTONE EXAMS STUDENT TUTORIALS

should be scheduled for students to review tutorial segments as needed. allows students to explore areas of interest within the PA Online Assessment and allows students to explore at their use pictures, motion, and sound to present visual and verbal descriptions of the properties and features of the PA knowledgeable about the PA Online Assessment in as little as 10 minutes of exploration. However, additional time own pace. Although an exhaustive exploration of a tutorial will take about 20 minutes, most students can become Online Assessment Software. There is a unique tutorial for Algebra I. Each tutorial is an interactive environment that The Student Tutorials are designed to be used by students prior to taking any Keystone Online Exam. The tutorials

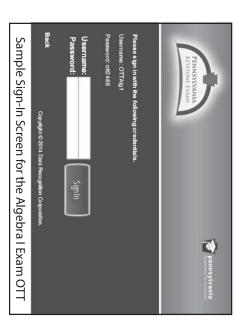
- Information / Test Tutorials). Students should choose the tutorial that relates to the intended exam. PA Online Tutorials icon or from the PA eDIRECT Web site (https://pa.drcedirect.com under Test Setup / General The Student Tutorials can be accessed directly from students' computer desktops by double-clicking on the
- Online Exam administrations. The tutorial must be viewed at least once by all Test Administrators who will supervise any of the Keystone
- the tutorial as often as desired and needed. There are no restrictions on accessing these tools. The tutorial must be viewed at least once by students in advance of their testing day. Allow students to repeat
- headphones be provided for those students who might be going through the tutorial in close quarters. on the screen, allowing the student to be able to read along as the script is read aloud. It is recommended that The narration within the tutorials is included both as spoken audio and as printed captioning displayed directly
- so students can review an entire grouping of topics. or concepts within a tutorial using the links to specific tools and functions. Overview videos are also available, Students are encouraged to revisit the tutorials to review specific functionality. They can select specific topics
- functionality within the tutorial environment. Test Administrators are encouraged to explore the overview videos (groupings of topics) and to review specific
- computerized assessment format are essential for a fair and valid student assessment. session for students and then immediately have the students do the Online Tools Training. This training should page of this document for more information about the Online Tools Training.) Many schools schedule a tutorial The tutorial should be viewed by a student first, and then the Online Tools Training should occur. (See the next be completed before the scheduled test administration day. Experience with and awareness of the Keystone
- of the assessment. See Appendix D for more information. Test Administrators should review the Test Directions that students will have access to during the administration
- to the Pause/Exit Function, Interrupted Testing, and Unplanned Test Inactivity. Test Administrators should review Appendix F and become familiar with the software tools and features related

Online Tools Training will require that students have access to individual computer stations. the Student Tutorials in the regular classroom using an LCD projector and one Internet connection. However, the **TIP:** If your school has capacity issues with the computer labs, Test Administrators may lead the students through

KEYSTONE EXAMS ONLINE TOOLS TRAINING

students to experience taking an exam on a computer and to experiment with the features available to and not the testing of skill acquisition within any subject. Remind students that the OTT is designed to allow chosen to demonstrate the features and tools of online testing. The goal is instruction on the use of the computer are indicative of the content of a given exam, the OTT is not a practice test of the content. That is, the OTT is not Keystone Online Exam. The purpose of the OTT is for the students to observe and try out features of the PA Online them during an actual exam. designed to demonstrate complete coverage of the tested content, and it is not scored. Exam questions have been Assessment Software prior to an actual administration. Although the exam questions used for illustration purposes The Online Tools Training (OTT) is designed to provide an introductory experience in preparation for taking a

- online exam administration. Both Test Administrators and students should experience the Online Tools Training before students begin the
- a subject. Once the program opens, all students should enter the Username and Password displayed on the select Online Tools Training under the Keystone portion of the window, select a content area, and then select To begin an Online Tools Training, students double-click on the PA Online Assessments icon on their desktop, sign-in screen. A sample sign-in screen is shown below.



- The Username is "OTTAlg1." 1
- The Password for each OTT is "ott2468." 1
- exploration on key tools and features. Practice Hints do not appear in actual exams. questions. Practice Hints are provided with some test questions. The Practice Hints are a guide to focus student Test Administrators should encourage students to learn to use the testing tools while answering the practice
- Test Administrators should review
- the Test Directions that students will have access to during the exam. See Appendix D for more information.
- the software tools and features related to the Pause/Exit Function, Interrupted Testing, and Unplanned Test Inactivity. See Appendix F for more information.
- online assessments within the format of the actual assessment. The PA Online Assessment Software will allow Remember: The Online Tools Training is provided so that students can practice using the tools and features of the student to finish the test without answering all of the questions.

use the tools on the Online Tools Training. Test Administrators may help students with questions concerning the Online Tools Training or show them how to

Username and Password for all OTT are displayed on the sign-in screen.

ALGEBRA I EXAM ADMINISTRATION REMINDERS

administration instructions carefully ensures that all students are tested under similar conditions in all classrooms It is important to use standardized exam procedures to maintain fairness for all students. Following the exam

Before exam administration:

- use the tools within the online system-Be sure students have explored the Student Tutorial, have taken the Online Tools Training, and know how to including where and how to mark their answers.
- for testing are on the roster. Notify the School Assessment Coordinator if there are errors on the roster. Review the roster contained within the Student Login Summary, and make certain that all students intended
- School Assessment Coordinator if any Student Login Tickets are missing. Make certain that a Student Login Ticket (Test Ticket) is ready for each student taking the exam. Notify the
- the text-to-speech software installed. Make certain that students who are to receive the read-aloud accommodation are seated at computers with
- Be sure each student has the correct Student Login Ticket (Test Ticket).
- Review the Test Directions that students will have access to during the assessment. See Appendix D for more
- Review the software tools and features related to the Pause/Exit Function, Interrupted Testing, and Unplanned Test Inactivity. See Appendix F for more information.
- Optional: Prepare copies of the Keyboard Shortcuts for System (see Appendix H), the Online Calculator Shortcuts response questions (see Appendix E). (see Appendix I), and the *Algebra I Constructed-Response Scoring Guidelines* used for Algebra I constructed-

During exam administration:

- Follow the directions of the School Assessment Coordinator for maintaining exam security
- Be sure that all classroom instructional materials are removed or covered.
- Help students approach the assessment in a positive manner
- Encourage students to keep trying.
- answer choices paraphrase, offer additional information, or give information that provides clues concerning test questions or be repeated to students as needed during the administration; however, the Test Administrator may not difficulty. The Test Directions (as they appear online) are printed in Appendix D of this manual. They may Help students understand where and how to mark their answers, and clarify directions for students having
- For issues associated with the software tools and features of the Pause/Exit Function, Interrupted Testing, and Unplanned Test Inactivity, refer to Appendix F.
- show individual students how to find onscreen information. administration information can be found within the online testing system. You may need to pause to In some places in this manual the Test Administrator will be prompted to reference where specific
- Students are not permitted to assist other students with operating the computer or the online tools during the online exam.
- For the remainder of this manual, indented text in bold type is to be read aloud to students exactly as written. All other text is information for the Test Administrator.
- Screen captures included in this manual are intended to help Test Administrators confirm that students are on the correct screen within the online assessment.

of Conduct for Test Takers" found on the next page of this manual When ready to start the exam, the Test Administrator should begin with the section titled "Start the Exam--Code

START THE EXAM—CODE OF CONDUCT FOR TEST TAKERS

ready at the desktop. Make sure that no student is in possession of a cell phone, camera, or other electronic device. Collect all electronic devices prior to distributing any exam materials. Make sure that each student is sitting at a separate computer, and make sure that each computer is turned on and

Say:

exam your best effort. I will now pass out your Student Login Ticket, or Test Ticket. Do not begin until Welcome to the Pennsylvania Keystone Algebra I Exam. Carefully follow the directions and give this I tell you to do so.

correct Test Ticket to each student. When you are ready, say: Distribute individual Student Login Tickets (Test Tickets). The Test Tickets are unique to each student, so match the

Raise your hand if your Test Ticket does not have your name on it. Each of you now has a Test Ticket. Check to make certain that your name appears on the Test Ticket.

Correct any ticket distribution errors. When you are ready, say:

Now we are ready to begin. First, double-click on the PA Online Assessments icon on your desktop. You should see the Welcome to Pennsylvania Online Assessments screen. Is there anyone who does not see the Welcome screen?

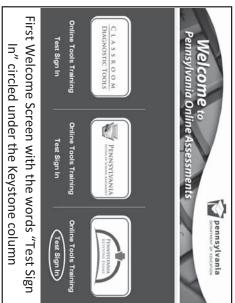
Pause to assist students as necessary. If a student receives an error message, note the content of the error message and contact the School Assessment Coordinator. When all students are ready, say:

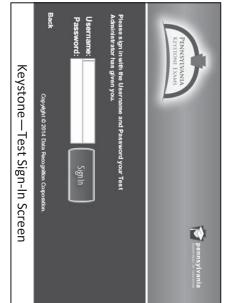
Under the Keystone Exams column on the right side of your screen, click on the words Test Sign In. You should see the Sign-In screen appear. Is there anyone who does not see the Sign-In screen?

Pause to assist students as necessary. Check to make sure that the Sign-In screen includes the Keystone Exams logo. If a student receives an error message, note the content of the error message and contact the School Assessment Coordinator. When all students are ready, say:

You may now enter your Username and Password in the spaces provided on the screen. Your individual Username and Password are found on your Test Ticket. When you have finished entering your Username and Password, click on the Sign In button in the middle of the screen.

Pause while students enter their login credentials. Leads Assist students as necessary to enter the information. Remember: Usernames and Passwords are unique to each student.





Note: If any Test Ticket has an error on it, please contact the School Assessment Coordinator. However, in some cases the student should continue using the same Test Ticket anyway. For example:

as the PAsecureID is correct, the student should continue with the same Test Ticket. The Test Ticket shows a given name rather than a nickname or informal name (e.g., David vs. Dave); as long

When all students are ready, say:

does not see the second Welcome screen? When you have clicked on the Sign In button, a second Welcome screen opens. Is there anyone who

ready, say: to assist students as necessary. When all students are

correct: make sure that the following facts about you are Look at the information on the Welcome screen and

- Your name
- Your test name
- Your test session
- Your school name
- Your PAsecureID

Continue button. If the information is not correct, If the information about you is correct, click on the

Pause Assessment Coordinator if a student finds an error on the to assist students as necessary. Contact your School raise your hand.

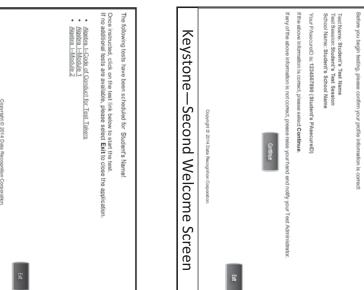
Welcome screen. When all students are ready, say: does not see the Test Selection screen? After you have clicked on the Continue button, the Test Selection screen will open. Is there anyone who

ready, say: Pause to assist students as necessary. When all students are

Keystone—Test Selection Screen

Vart IV

Directions screen should open. Is there anyone who Code of Conduct for Test Takers," the General Test Test Takers." Once you have clicked on "Algebra I to click on the words "Algebra I— We are now ready to begin. Use your mouse pointer does not see the General Test Directions screen? Code of Conduct for



click on Pause and then on Exit to return to the Test Sign-In screen to log back in to the exam. Contact the School devices to confirm that all students are on the Code of Conduct for Test Takers. If a student has selected a Module, The test session is identified in the upper-left corner of the General Test Directions screen. Check the screens of all Assessment Coordinator for guidance on how to allow the student later access to the incorrectly selected session

KEYSTONE Algebra I Online

Pause to assist students as necessary. When all students are ready, say:

At the top of the screen is a box labeled "ATTENTION." Read the paragraph inside the box now.

ready, say: Pause for students to read the paragraph. When all students are

Are there any questions about this paragraph?

Answer all questions. When students are ready, say:

I will now read the General Test Directions. Read the General Test Directions silently as I read them aloud.

DONOT PHOTOGRAPH, COPY OR REPRODUCE MATERIAL FROM THIS ASSESSMENT IN ANY MANNER. All material contained in the assessment is secure and copyrighted material control by the Perrosylvania Department of Education. Copyrigh or material in a manner, incidently that perrosylvania Department of Education. Copyrigh or material in manner, incidently the propagation of the federal Copyright ACT Penalties for violations of the federal Test Directions.

General Test Directions

This screen shows an image to do not closely see time circles, proses mise your thans.

Heipful Hints

**Sample of General Test Directions Screen

**Sample of General Test Directions Screen

General Test Directions

three circles in the image below. If you do not clearly see three circles, please raise your hand This screen shows an image to check if your computer screen is set up correctly. There should be

three circles. Then say: Pause to assist students as necessary. Contact the School Assessment Coordinator if a student does not see the

Use the scroll bar on the right side to follow along silently as I read the Helpful Hints aloud. I will now read the Helpful Hints. The Helpful Hints are printed below the General Test Directions

Helpful Hints

- There is no time limit to finish the test.
- Only one question at a time will appear on the screen.
- to log back in. button to continue. If you are away from your computer for more than 20 minutes, you will need If you need to go away from your computer, click on the Pause button. Click on the Resume
- by selecting it from the list that appears on the screen. To see your progress on the test, click on the Review/End Test button. You may go to any question
- Click on the ? [Help] button to find more information.

Are there any questions about the Helpful Hints?

Answer all questions. When all students are ready, say:

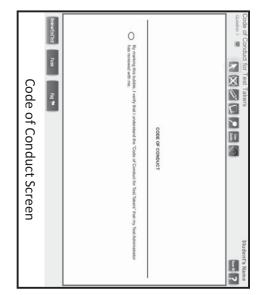
Click on the Begin The Test button at the bottom of the screen.

Pause to assist students as necessary. When all students are ready, say:

Read the statement on your screen as I read it aloud.

"By marking this bubble, I verify that I understand the Code of Conduct for Test Takers that my Test Administrator has reviewed with me."

If you understand the Code of Conduct for Test Takers, use your mouse pointer to click on the bubble now. If you have questions about the Code of Conduct for Test Takers, raise your hand.



Note: The Code of Conduct for Test Takers is printed in Appendix B of this manual.

for Test Takers and click on the bubble. When students are ready, Answer student questions until all understand the Code of Conduct

Click on the Review/End Test button in the bottom-left corner of the screen.

Then click on the End Test button to finish the test section. You will be asked to confirm that you are done.



to review the statement or indicate that the student understands the Code of Conduct for Test Takers. click the End Test button." Once the student has clicked through, the student cannot go back into the test section you have answered all of the questions. To continue testing, click the Return to Review button. To end your test, is finished. If the student has left the item incomplete, the End Test Confirmation Screen will read "Please be sure Note: Once the student has clicked on the End Test button, the student must provide a confirmation that he or she

Vart IV

When all students have finished, say:

When you have clicked on the End Test button, a confirmation screen opens indicating you have completed this test section. Click on OK to return to the Test Sign-In screen. Is there anyone who does not see the Test Sign-In screen?

Allow time for students to click through to reach the Test Sign-In screen. Say:

You are now going to take Module 1.

Continue with the next section found on the <u>next page of this manual</u>.



ADMINISTER THE ALGEBRA I EXAM—MODULE 1

ready at the desktop. Make sure that no student is in possession of a cell phone, camera, or other electronic device. you to distribute a supply of scratch/grid paper. some work on scratch/grid paper, so make sure that all students have a pencil. These directions will also prompt Collect all electronic devices prior to distributing any exam materials. Students will have an opportunity to do Make sure that each student is sitting at a separate computer, and make sure that each computer is turned on and

Say

Carefully follow the directions and give this exam your best effort. Welcome to the Pennsylvania Keystone Algebra I Exam. We are now ready to begin Module 1.

button in the online test. You may refer to the formulas any time during the exam. Formulas that you may need to solve questions in this module are found by clicking on the References

performing operations with π (pi), you may use either calculator π or the number 3.14. You may use a calculator on this module. Calculators are included with the exam questions. When

There are two types of questions in each module.

Multiple-choice questions will ask you to select an answer from among four choices

- First read the question and solve the problem. Then choose the correct answer and record your
- Only one of the answers provided is correct.
- If none of the choices matches your answer, go back and check your work for possible errors.

Constructed-response questions require that you type your response

- These questions have more than one part. Be sure to read the directions carefully
- directions. You cannot receive the highest score for a constructed-response question without following all
- explain your reasoning. or explain your reasoning. However, not all questions will require that you show your work or If the question asks you to show your work or explain your reasoning, be sure to show your work
- graphing, plotting, labeling, drawing, or shading. All responses must be typed in the appropriate response box. Some answers may require

I will now pass out scratch/grid paper. Do not begin until I tell you to do so.

Distribute scratch/grid paper. When you are ready, say

Now we are ready to begin.

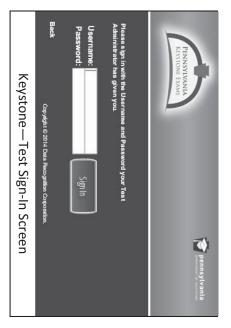
You should see the Sign-In screen. Is there anyone who does not see the Sign-In screen?

Pause to assist students as necessary. Check to make sure that the Sign-In screen includes the Keystone Exams logo. If a student receives an error message, note the content of the error message and contact the School Assessment Coordinator. When all students are ready, say:

You may now enter your Username and Password in the spaces provided on the screen. Your individual Username and Password are found on your Test Ticket. When you have finished entering your Username and Password, click on the Sign In button in the middle of the screen.

while students enter their login credentials. Assist

Pause while students enter their login credentials. Assist students as necessary to enter the information. Remember: Usernames and Passwords are unique to each student.



cases the student should continue using the same Test Ticket anyway. For example: Note: If any Test Ticket has an error on it, please contact the School Assessment Coordinator. However, in some

as the PAsecureID is correct, the student should continue with the same Test Ticket. The Test Ticket shows a given name rather than a nickname or informal name (e.g., David vs. Dave); as long

When all students are ready, say:

does not see the second Welcome screen? When you have clicked on the Sign In button, a second Welcome screen opens. Is there anyone who

Pause to assist students as necessary. When all students are ready, say:

Look at the information on the Welcome screen and make sure that the following facts about you are correct:

- Your name
- Your test name
- Your test session
- Your school name
- Your PAsecureID

If the information about you is correct, click on the Continue button. If the information is not correct, raise your hand.

Pause to assist students as necessary. Contact your School Assessment Coordinator if a student finds an error on the Welcome screen. When all students are ready, say:

After you have clicked on the Continue button, the Test Selection screen will open. Is there anyone who does not see the Test Selection screen?





Pause to assist students as necessary. When all students are ready, say:

should open. Is there anyone who does not see the General Test Directions screen for Module 1? Module 1." Once you have clicked on "Algebra I—Module 1," the General Test Directions screen We are now ready to begin the test. Use your mouse pointer to click on the words "Algebra I—

guidance on how to allow the student later access to the incorrectly selected module return to the Test Sign-In screen to log back in to the exam. Contact the School Assessment Coordinator for to confirm that all students are on Module 1. If a student has selected Module 2, click on Pause and then on Exit to The Module number appears in the upper-left corner of the Test Directions screen. Check the screens of all devices

Pause to assist students as necessary. When all students are ready,

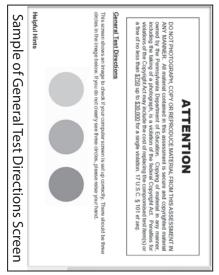
At the top of the screen is a box labeled "ATTENTION." Read the paragraph inside the box now.

ready, say: for students to read the paragraph. When all students are

Are there any questions about this paragraph?

Answer all questions. When students are ready, say:

I will now read the General Test Directions. Read the General Test Directions silently as I read them aloud.



General Test Directions

three circles in the image below. If you do not clearly see three circles, please raise your hand This screen shows an image to check if your computer screen is set up correctly. There should be

Pause to assist students as necessary. Contact the School Assessment Coordinator if a student does not see the three circles. Then say:

Use the scroll bar on the right side to follow along silently as I read the Helpful Hints aloud I will now read the Helpful Hints. The Helpful Hints are printed below the General Test Directions.

Helpful Hints

- There is no time limit to finish the test.
- Only one question at a time will appear on the screen.
- If you need to go away from your computer, click on the Pause button. Click on the Resume to log back in. button to continue. If you are away from your computer for more than 20 minutes, you will need
- by selecting it from the list that appears on the screen. To see your progress on the test, click on the Review/End Test button. You may go to any question
- Click on the? [Help] button to find more information.

Are there any questions about the Helpful Hints?

Note: The General Test Directions and Helpful Hints (as they appear online) are printed in Appendix manual. If asked, refer to this appendix to repeat any portion to students during the test administration. \Box of this

Answer all questions. When all students are ready, say:

Click on the Next button at the bottom of the screen.

to assist students as necessary. When all students are

bar on the right side to follow along. Directions silently as I read them aloud. Use the scroll I will now read the Test Directions. Read the Test

Test Directions

? [Help] button and choose the Test Directions tab. exam. To look at these directions again, click on the Read these directions carefully before beginning the

Test Directions

Read these directions <u>carefully</u> before beginning the exam. To look the ? [Help] button and choose the **Test Directions** tab.

ring Questions

- nswer to the question. Inerr, whose a find the Pointer tool.

 Indis correct. If none of the choices matches your
- answer by clicking on the

 Only one of the answer, go back and
 To change an answer

 Click on the Flag but
 question so you kno
- 2. For con tools to to choose a different answer.

 If the answer to a question. It will mark the
 er the question later.

 board, the equation builder, and the other or
- der or constructing a graph, click on the f those features. This will open Help, which
- sional scorers will use to evaluate your n be found by clicking on the ? [Help]

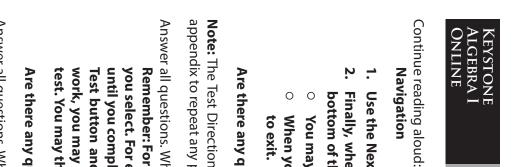
Sample of a Test Directions Screen

These page numbers will be shown below the question number, for example, "1 of 3." which to enter your response(s). The constructed-response questions may have multiple pages. question has four answer choices. Each constructed-response question has one or more areas in This test has multiple-choice questions and constructed-response questions. Each multiple-choice

Answering Questions

Read each question carefully and choose your answer or enter your response

- For multiple-choice questions, first, find the answer to the question. Then, choose the correct answer by clicking on the answer bubble using the Pointer tool.
- 0 answer, go back and check your work for possible errors. Only one of the answer choices provided is correct. If none of the choices matches your
- 0 To change an answer, use the Pointer tool to choose a different answer.
- 0 Click on the Flag button if you are not sure of the answer to a question. It will mark the question so you know to go back and answer the question later.
- ы For constructed-response questions, use the keyboard, the equation builder, and the other online tools to enter your response in the areas provided.
- 0 For questions that require using the equation builder or constructing a graph, click on the offers descriptions on how to use these features. question mark icon [?] in the upper-right corner of those features. This will open Help, which
- 0 responses to constructed-response questions can be found by clicking on the? [Help] button An example of the scoring guidelines that professional scorers will use to evaluate your and choosing the Scoring tab. You may refer to the Scoring Guidelines at any time while responding to constructed-response questions.
- Ψ Use tools such as the Cross-Off, Highlighter, Sticky Note, Magnifier, Line Guide, Calculator, Graphing Tool, and Formula Sheet to assist you during the test.



Navigation

- Use the Next and Back buttons to move from question to question or page to page
- Finally, when you have answered all the questions, click on the Review/End Test button at the bottom of the screen.
- You may check your work by selecting questions from the list that appears on the screen.
- When you have finished and have checked your answers, follow the directions on the screen

Are there any questions about the Test Directions?

appendix to repeat any portion of these Test Directions to students during the test administration Note: The Test Directions (as they appear online) are printed in Appendix D of this manual. If asked, refer to this

Answer all questions. When all students are ready, say:

test. You may then read or sit quietly until everyone has finished work, you may click on the End Test button and follow the onscreen instructions to complete your Test button and follow the onscreen directions to review your test. After you have checked your until you complete all of the questions. When you reach the end of the test, click on the Review/End you select. For each constructed-response question, be sure to answer each part. Continue working Remember: For each multiple-choice question, be sure to click on the circle next to the answer choice

Are there any questions?

Answer all questions. When all students are ready, say:

on the Pause button if you need to pause your test for any reason. To start the test, click on the Begin The Test button at the bottom of the screen. Remember to click

You may begin.

suggest the correct answer to a question. Do not communicate to a student that the student should "check" an in Appendix D of this manual. They may be repeated to students as needed during the administration. and assist students to functionally operate their computers. The Test Directions (as they appear online) are printed answer or that the student has answered an item incorrectly. You may, however, provide clarification of directions While students are taking the exam, be available as a resource. Do not give any individual or group help that might

during the test administration: Reminder about Software Tools and Features for Test Administrators (see Appendix F) that you may need to use

- Pause/Exit Function: Temporary, short breaks (e.g., restroom break)
- Interrupted Testing: Emergency issues (e.g., local alarms, electrical outages)
- Unplanned Test Inactivity: More than 20 minutes of no input from the student

Sometimes a word of encouragement is all that is needed to help a student continue to work. Encourage students to try all of the tasks and to complete the assessment.

Keyboard shortcuts (including those for the Online Calculators) are available for students to use. These shortcuts Assessment Coordinator for secure storage and destruction. these keyboard shortcuts are considered part of the secure testing materials and must be returned to the School (provided in Appendices H and I) may be copied from this book and reproduced as necessary. The copies of

the test. If the problem persists, consult the School Assessment Coordinator. Note: In the event of a temporary loss of Internet connectivity, wait a few minutes and then try again to complete

five minutes remain in the exam time for the group not yet finished with this exam module, say: information about Extended Exam Time, see Part II of this document. When you have confirmed that approximately all students have completed all questions or when you determine that additional time is not necessary. For more basis if one or more students are continuing to make reasonable progress on the exam. End the session only when each student is to be provided sufficient time to finish the exam, additional time may be allowed on an individual The testing time for this module is estimated at 75 minutes, but the actual administration time may vary. Since

bottom-left corner of the screen. Be sure to click on the Review/End Test button in the You have about five minutes to complete Module 1.

If you think you might need more than five minutes, review of those questions before you click on End Test. flagged any test questions, be sure to complete your will be asked to confirm that you are done. If you have Then click on the End Test button to finish the test. You raise your hand.



(for students who have completed all items)

Note: Once the student has clicked on the End Test button, the student must provide a confirmation that he or she review or answer test questions. test, click the End Test button." Once the student has clicked through, the student cannot go back in to the test to be sure you have answered all of the questions. To continue testing, click the Return to Review button. To end your is finished. If the student has left one or more items incomplete, the End Test Confirmation Screen will read "Please

When all students have finished, or sufficient time has passed, say:

This ends Module 1 of the Algebra I Online Keystone click OK on the last screen to close the test. End Test again, confirming that you are done. Then Review/End Test and click on End Test. Then click on Exam. If you have not done so already, click on



Vart IV

Allow time for students to click through to finish the test. When all students are ready, say: I will now collect your Test Ticket and your scratch paper and grid paper.

and/or calculator shortcuts or the Algebra I scoring guidelines, collect these at this time. Student Login Tickets Note: If students used school-provided calculators, also collect the calculators. (Test Tickets), used scratch/grid paper, and all optional materials must be returned to the School Assessment Collect all Test Tickets and scratch/grid paper at this time. If students used optional materials like the keyboard Coordinator. All calculators used during the exam must be cleared of any information entered during this module.

If you are administering Module 2 later in the same day, say:

You are going to take Module 2 later today.

If you are administering Module 2 on a different day [you may specify the day], say: You are going to take Module 2 on [a different day or say the name of the day].

Return all materials (Test Tickets, used scratch/grid paper, and any optional materials) immediately to the School Assessment Coordinator for secure storage.

ADMINISTER THE ALGEBRA I EXAM—MODULE 2

some work on scratch/grid paper, so make sure that all students have a pencil. These directions will also prompt ready at the desktop. Make sure that no student is in possession of a cell phone, camera, or other electronic device. you to distribute a supply of scratch/grid paper. Collect all electronic devices prior to distributing any exam materials. Students will have an opportunity to do Make sure that each student is sitting at a separate computer, and make sure that each computer is turned on and

Say

Welcome back to the Pennsylvania Keystone Algebra I Exam. We are now ready to begin Module 2. Carefully follow the directions and give this exam your best effort.

button in the online test. You may refer to the formulas any time during the exam. Formulas that you may need to solve questions in this module are found by clicking on the References

performing operations with π (pi), you may use either calculator π or the number 3.14. You may use a calculator on this module. Calculators are included with the exam questions. When

There are two types of questions in each module.

Multiple-choice questions will ask you to select an answer from among four choices

- First read the question and solve the problem. Then choose the correct answer and record your
- Only one of the answers provided is correct.
- If none of the choices matches your answer, go back and check your work for possible errors.

Constructed-response questions require that you type your response

- These questions have more than one part. Be sure to read the directions carefully
- directions. You cannot receive the highest score for a constructed-response question without following all
- explain your reasoning. or explain your reasoning. However, not all questions will require that you show your work or If the question asks you to show your work or explain your reasoning, be sure to show your work
- graphing, plotting, labeling, drawing, or shading. All responses must be typed in the appropriate response box. Some answers may require

I will now pass out scratch/grid paper and your Student Login Ticket, or Test Ticket. Do not begin until I tell you to do so.

student, so match the correct Test Ticket to each student. When you are ready, say: Distribute scratch/grid paper and individual Student Login Tickets (Test Tickets). The Test Tickets are unique to each

Each of you now has a Test Ticket. Check to make certain that your name appears on the Test Ticket. Raise your hand if your Test Ticket does not have your name on it.

Keystone—Test Sign-In Screen

Correct any ticket distribution errors. When you are ready, say:

Now we are ready to begin. Double-click on the
PA Online Assessments icon on your desktop. You
should see the Welcome to Pennsylvania Online
Assessments screen. Is there anyone who does not
see the Welcome screen?

Pause to assist students as necessary. If a student receives an error message, note the content of the error message and contact the School Assessment Coordinator. When all students are ready, say:

Under the Keystone Exams column on the right side of your screen, click on the words Test Sign In. You should see the Sign-In screen appear. Is there anyone who does not see the Sign-In screen?

Pause to assist students as necessary. Check to make sure that the Sign-In screen includes the Keystone Exams logo. If a student receives an error message, note the content of the error message and contact the School Assessment Coordinator. When all students are ready, say:

You may now enter your Username and Password in the spaces provided on the screen. Your individual Username and Password are found on your Test Ticket. When you have finished entering your Username and Password, click on the Sign In button in the middle of the screen.

Pause while students enter their login credentials. Assist students as necessary to enter the information. Remember: Usernames and Passwords are unique to each student.



cases the student should continue using the same Test Ticket anyway. For example: Note: If any Test Ticket has an error on it, please contact the School Assessment Coordinator. However, in some

as the PAsecureID is correct, the student should continue with the same Test Ticket. The Test Ticket shows a given name rather than a nickname or informal name (e.g., David vs. Dave); as long

When all students are ready, say:

When you have clicked on the Sign In button, a second Welcome screen opens. Is there anyone who does not see the second Welcome screen?

KEYSTONE Algebra I Online

Pause to assist students as necessary. When all students are ready, say:

Look at the information on the Welcome screen and make sure that the following facts about you are correct:

- Your name
- Your test name
- Your test session
- Your school name
- Your PAsecureID

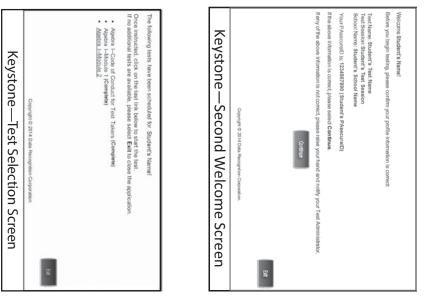
If the information about you is correct, click on the Continue button. If the information is not correct, raise your hand.

Pause to assist students as necessary. Contact your School Assessment Coordinator if a student finds an error on the Welcome screen. When all students are ready, say:

After you have clicked on the Continue button, the Test Selection screen will open. Is there anyone who does not see the Test Selection screen?

Pause to assist students as necessary. When all students are ready, say:

We are now ready to begin the test. Use your mouse pointer to click on the words "Algebra I—Module 2." Once you have clicked on "Algebra I—Module 2," the General Test Directions screen should open. Is there anyone who does not see the General Test Directions screen for Module 2?



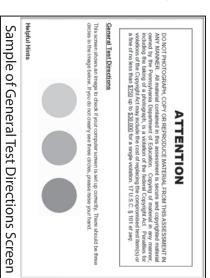
guidance on how to allow the student later access to the incorrectly selected module return to the Test Sign-In screen to log back in to the exam. Contact the School Assessment Coordinator for to confirm that all students are on Module 2. If a student has selected Module 1, click on Pause and then on Exit to The Module number appears in the upper-left corner of the Test Directions screen. Check the screens of all devices

Pause to assist students as necessary. When all students are ready,

At the top of the screen is a box labeled "ATTENTION." Read the paragraph inside the box now.

ready, say: Pause for students to read the paragraph. When all students are

Are there any questions about this paragraph?



Answer all questions. When students are ready, say:

aloud. I will now read the General Test Directions. Read the General Test Directions silently as I read them

General Test Directions

three circles in the image below. If you do not clearly see three circles, please raise your hand This screen shows an image to check if your computer screen is set up correctly. There should be

Pause to assist students as necessary. Contact the School Assessment Coordinator if a student does not see the three circles. Then say:

Use the scroll bar on the right side to follow along silently as I read the Helpful Hints aloud. I will now read the Helpful Hints. The Helpful Hints are printed below the General Test Directions.

Helpful Hints

- There is no time limit to finish the test.
- Only one question at a time will appear on the screen.
- button to continue. If you are away from your computer for more than 20 minutes, you will need If you need to go away from your computer, click on the Pause button. Click on the Resume
- by selecting it from the list that appears on the screen. To see your progress on the test, click on the Review/End Test button. You may go to any question
- Click on the ? [Help] button to find more information.

Are there any questions about the Helpful Hints?

manual. If asked, refer to this appendix to repeat any portion to students during the test administration. Note: The General Test Directions and Helpful Hints (as they appear online) are printed in Appendix D of this

Answer all questions. When all students are ready, say:

Click on the Next button at the bottom of the screen.

Pause ready, say: to assist students as necessary. When all students are

bar on the right side to follow along. Directions silently as I read them aloud. Use the scroll I will now read the Test Directions. Read the Test

Test Directions

? [Help] button and choose the Test Directions tab. exam. To look at these directions again, click on the Read these directions carefully before beginning the

Test Directions

Read these directions <u>carefully</u> before beginning the exam. To look he ? **[Help]** button and choose the **Test Directions** tab.

ing Questions

- the answer to a question.
 the question later.
 xard, the equation builder,

- Sample of a Test Directions Screen

Continue reading aloud:

These page numbers will be shown below the question number, for example, "1 of 3." which to enter your response(s). The constructed-response questions may have multiple pages. question has four answer choices. Each constructed-response question has one or more areas in This test has multiple-choice questions and constructed-response questions. Each multiple-choice

Answering Questions

Read each question carefully and choose your answer or enter your response

- For multiple-choice questions, first, find the answer to the question. Then, choose the correct answer by clicking on the answer bubble using the Pointer tool.
- 0 Only one of the answer choices provided is correct. If none of the choices matches your answer, go back and check your work for possible errors.
- 0 To change an answer, use the Pointer tool to choose a different answer
- 0 Click on the Flag button if you are not sure of the answer to a question. It will mark the question so you know to go back and answer the question later.
- For constructed-response questions, use the keyboard, the equation builder, and the other online tools to enter your response in the areas provided.
- 0 offers descriptions on how to use these features. question mark icon [?] in the upper-right corner of those features. This will open Help, which For questions that require using the equation builder or constructing a graph, click on the
- 0 An example of the scoring guidelines that professional scorers will use to evaluate your and choosing the Scoring tab. You may refer to the Scoring Guidelines at any time while responses to constructed-response questions can be found by clicking on the? [Help] button responding to constructed-response questions.
- ω Use tools such as the Cross-Off, Highlighter, Sticky Note, Magnifier, Line Guide, Calculator, Graphing Tool, and Formula Sheet to assist you during the test.

Navigation

- Use the Next and Back buttons to move from question to question or page to page.
- 'n bottom of the screen. Finally, when you have answered all the questions, click on the Review/End Test button at the
- You may check your work by selecting questions from the list that appears on the screen.
- 0 When you have finished and have checked your answers, follow the directions on the screen

Are there any questions about the Test Directions?

appendix to repeat any portion of these Test Directions to students during the test administration Note: The Test Directions (as they appear online) are printed in Appendix D of this manual. If asked, refer to this

Answer all questions. When all students are ready, say:

test. You may then read or sit quietly until everyone has finished. work, you may click on the End Test button and follow the onscreen instructions to complete your Test button and follow the onscreen directions to review your test. After you have checked your until you complete all of the questions. When you reach the end of the test, click on the Review/End you select. For each constructed-response question, be sure to answer each part. Continue working Remember: For each multiple-choice question, be sure to click on the circle next to the answer choice

Are there any questions?

Answer all questions. When all students are ready, say:

on the Pause button if you need to pause your test for any reason. To start the test, click on the Begin The Test button at the bottom of the screen. Remember to click

You may begin.

suggest the correct answer to a question. Do not communicate to a student that the student should "check" an this manual. They may be repeated to students as needed during the administration. to functionally operate their computers. The Test Directions (as they appear online) are printed in Appendix D of answer or has answered an item incorrectly. You may, however, provide clarification of directions and assist students While students are taking the exam, be available as a resource. Do not give any individual or group help that might

during the test administration: Reminder about Software Tools and Features for Test Administrators (see Appendix F) that you may need to use

- Pause/Exit Function: Temporary, short breaks (e.g., restroom break)
- Interrupted Testing: Emergency issues (e.g., local alarms, electrical outages)
- Unplanned Test Inactivity: More than 20 minutes of no input from the student

to try all of the tasks and to complete the assessment. Sometimes a word of encouragement is all that is needed to help a student continue to work. Encourage students

Assessment Coordinator for secure storage and destruction. these keyboard shortcuts are considered part of the secure testing materials and must be returned to the School (provided in Appendices H and I) may be copied from this book and reproduced as necessary. The copies of Keyboard shortcuts (including those for the Online Calculators) are available for students to use. These shortcuts

the test. If the problem persists, consult the School Assessment Coordinator. Note: In the event of a temporary loss of Internet connectivity, wait a few minutes and then try again to complete

five minutes remain in the exam time for the group not yet finished with this exam module, say: information about Extended Exam Time, see Part II of this document. When you have confirmed that approximately all students have completed all questions or when you determine that additional time is not necessary. For more basis if one or more students are continuing to make reasonable progress on the exam. End the session only when each student is to be provided sufficient time to finish the exam, additional time may be allowed on an individual The testing time for this module is estimated at 75 minutes, but the actual administration time may vary. Since

You have about five minutes to complete Module 2. Be sure to click on the Review/End Test button in the bottom-left corner of the screen.

Then click on the End Test button to finish the test. You will be asked to confirm that you are done. If you have flagged any test questions, be sure to complete your review of those questions before you click on End Test. If you think you might need more than five minutes, raise your hand.



(for students who have completed all items)

test, click the End Test button." Once the student has clicked through, the student cannot go back into the test to is finished. If the student has left one or more items incomplete, the End Test Confirmation Screen will read "Please Note: Once the student has clicked on the End Test button, the student must provide a confirmation that he or she review or answer test questions. be sure you have answered all of the questions. To continue testing, click the Return to Review button. To end your

When all students have finished, or sufficient time has passed, say:

This ends Module 2 of the Algebra I Online Keystone Exam. If you have not done so already, click on Review/End Test and click on End Test. Then click on End Test again, confirming that you are done. Then click OK on the last screen to close the test.



students are ready, say: Allow time for students to click through to finish the test. When all

I will now collect your Test Ticket and your scratch paper and grid paper.

Note: If students used school-provided calculators, also collect the calculators. Say: and/or calculator shortcuts or the Algebra I scoring guidelines, collect these at this time. Student Login Tickets Coordinator. All calculators used during the exam must be cleared of any information entered during this module. (Test Tickets), used scratch/grid paper, and all optional materials must be returned to the School Assessment Collect all Test Tickets and scratch/grid paper at this time. If students used optional materials like the keyboard

This concludes the Algebra I Online Keystone Exam.

Go on to read the section labeled "After Exam Administration" found on the next page of this manual

CLOSING OUT THE EXAM

After testing is complete:

- Make sure all students have closed out their testing session by
- clicking on "Review/End Test" (to open the Test Review Screen), followed by
- clicking on "End Test" (to open the test submission dialog box), then
- ω clicking on "End Test" [again] (to complete the test, confirming that once the test is ended the student is unable to change his or her answers), and then
- clicking on "OK" (to close the Test Session).
- Collect Test Tickets and any scratch/grid paper or optional materials. Return them to the School Assessment

the test. If the problem persists, consult the School Assessment Coordinator. Note: In the event of a temporary loss of Internet connectivity, wait a few minutes and then try again to complete

RETURN MATERIALS

and the Student Login Roster must be returned to the School Assessment Coordinator. In addition, all used School Assessment Coordinator. scratch/grid paper and any copies of the keyboard shortcuts or online calculator shortcuts must be returned to the Test materials must be kept secure. The Student Login Tickets (Test Tickets) (including any unused Test Tickets)

- Return all materials to the School Assessment Coordinator for secure storage, including the following:
- Used Student Login Tickets
- Unused Student Login Tickets
- Student Login Rosters
- Copies of the Keyboard Shortcuts for System (Appendix H)
- Copies of the Online Calculator Shortcuts (Appendix I)
- Copies of the General Description of Scoring Guidelines (Appendix E
- This manual
- Used scratch/grid paper
- exam session. Return all assessment materials to the School Assessment Coordinator immediately at the end of each
- Consult the School Assessment Coordinator if there are any questions regarding the return of assessment

administration. Test Administrators should return the signed and dated Test Administrator/Proctor Test Security Certification to the School Assessment Coordinator upon completion of the last testing session Security Certification, that person certifies that all security measures have been followed for this Keystone Exam date a Test Administrator/Proctor Test Security Certification. When a Test Administrator signs and dates the Test Remember: Every Test Administrator involved in the administration of this Keystone Exam must sign and

Pennsylvania Department of Education [(717) 787-4234] immediately. NOTE: If an assessment security violation is suspected, contact the School Assessment Coordinator or the

NOTE: The School Assessment Coordinator has all information on returning assessment materials to Data Recognition Corporation (DRC).



ETHICAL STANDARDS OF TEST ADMINISTRATION

Before Test Administration:

...

- and how it will be administered, and how the results will be used. Communicate to students, parents, and the community what the test does and does not measure, when
- Maintain a positive attitude about testing.
- Teach to the Pennsylvania Core Standards.
- Review skills, strategies, and concepts previously taught.
- taking skills include responding to both multiple-choice and constructed-response (open-ended) items. Integrate teaching of test-taking skills with regular classroom instruction and assessment. Examples of test-
- V testing mode (online) and its tools. Be sure that students testing online have prior experience with the online practice test that models the
- V Use any test preparation documents provided by the Pennsylvania Department of Education including Item and Scoring Samplers and General Scoring Guidelines
- Read the Directions for Administration Manual.
- Follow test security and administration guidelines.
- V group of students. If local circumstances do not allow that option, assign a Proctor in the classroom with the Test Administrator. Consider having a teacher, other than the teacher of record, administer the assessment to a particular
- Schedule the assessment.
- Include all students in the appropriate assessment.
- V of the procedures to follow. This training includes understanding test security and the confidential and Attend the annual training for the administration of the assessments in order to be properly informed proprietary nature of the documents.
- V Make contingency plans for unexpected disruptions during testing. All school personnel must know what to do in the event of a fire alarm, bomb threat, HAZMAT incident, unruly student, etc.
- V Remove or disable monitoring software (spyware) from computers, iPads, and Chromebooks to be used
- V test items Cover or remove from classrooms or hallways all instructional materials that could aid students in answering
- Make sure the testing environment is comfortable and has appropriate lighting
- V Ensure students are seated at the correct workstation for an online test administration
- Review the Code of Conduct for Test Takers with students.
- V Review the Calculator Policy. Clear the memory and all stored programs before and after the calculators are used for a test.
- V Make sure calculators (other than calculators provided within the online testing engine) meet the requirements of the Calculator Policy.
- V Know the required accommodations for each student with an IEP or 504 Service Plan and for each English Language Learner being assessed
- V Review with students the possible local sanctions the district will enforce for student misconduct (e.g., cheating and recording test questions).

DO NOT...

- V Teach students a test-taking technique that would require them to bubble more than one response to a test question and then return and erase all but one response.
- for valid test administration and is prohibited. any of the accommodations guidelines documents. Knowledge or review of test content is not necessary Review student test booklets except for purposes as stated in the Directions for Administration Manual and

interpretation of the test. Note:Interpreters may have access to test materials three days prior to test administration to prepare for accurate

- Reveal any part of secure copyrighted tests to students.
- Copy or otherwise reproduce any part of secure tests.
- Review and/or provide answers to test questions to students.
- Possess unauthorized copies of state tests.
- Assist in, direct, aid, counsel, encourage, or fail to report any of the actions prohibited in this section

During Test Administration:

DO...

- Follow test security and administration guidelines.
- Continually move around the testing site to ensure students are adhering to the instructions given.
- coaching (see DO NOT list on the next page). they are working. Be cautious in redirecting or assisting students that you are not violating test security by bubbling in answers in the correct section of the answer sheet for the section of the test booklet in which During active monitoring ensure that students are working in the correct section and that they are
- V includes those students who need additional time to complete any test session. Make sure students are supervised at all times during testing and all breaks. This supervision requirement
- V Escort all students and carry all secure testing materials to alternate testing sites for extended time, etc.
- Maintain a positive attitude about testing.
- V Make sure that sections/modules are started and completed in the same day
- \bigvee Account for all test booklets and answer booklets and keep them in a secure location.
- V Keep voice inflections neutral if an allowable or required accommodation is to read portions of the test
- Minimize distractions, including intercom announcements.
- Place a "**Testing—Do Not Disturb**" sign on doors where testing is occurring
- Collect cell phones, smart phones, and other unauthorized electronic devices as students enter the
- V Report testing irregularities/security breaches to the School Assessment Coordinator, principal, or the Pennsylvania Department of Education.

Appendices

KEYSTONE Algebra I Online

DO NOT...



- Leave students unattended with testing materials or permit any student to leave the testing site with testing materials for any reason.
- Permit students to look ahead to another section or module of the test before being instructed to do so, or allow students to look back in a test booklet once a test section or module has been completed
- V Discuss, disseminate, or otherwise reveal contents of the test to anyone.
- V Possess secure test materials at any time other than during the actual administration of the test. Test the testing session ends each day. and the materials must be counted and collected by the School Assessment Coordinator immediately after Administrators should be given the secure materials immediately prior to the administration of the test,
- V second look). This prohibition includes, but is not limited to, a Personal Care Aid (PCA), Therapeutic Support review rough drafts, or give feedback of any kind including indicating to students any items that need a Coach or provide feedback to students (e.g., answer any questions pertaining to the content of the test, Staff (TSS), or any other one-on-one aide who is assigned to a student.
- Define or clarify a word.Read aloud any portion of
- Read aloud any portion of the Literature Assessment.
- V Sections 2, 3, or 4 of the PSSA English Language Arts assessment. Read aloud the passages, multiple-choice questions or answer choices, or short-answer questions in
- V Read aloud any part of a mathematics item that will cue the correct answer or provide a hint for the test
- V up sessions for absences and for students who go to another testing site for extended time Return a test booklet to any student after it has been turned in to the Test Administrator except for make-
- V student to do so. Alter, influence, or interfere with a test response in any way, fill in any unanswered item, or instruct the
- V Assist in, direct, aid, counsel, encourage, or fail to report any of the actions prohibited in this section.

After Test Administration:

DO...

- Follow test security and administration guidelines.
- Maintain a positive attitude about testing
- Collect all scratch paper or rough drafts at the end of each test session, and return them to the School Assessment Coordinator to be destroyed.
- V Return all secure testing materials to the School Assessment Coordinator immediately after the testing session each day.
- V Account for all test booklets and answer booklets daily, and keep them in a secure location.
- V Transcribe exact student responses, including incorrect responses, when an alternate test format (such as Braille or large print) has been used or when a student's answer booklet has been damaged
- Clear the memory of calculators after each testing session.
- Pack and ship the secure testing materials to the testing contractor.
- Sign the appropriate Test Security Certification, and return it to the appropriate individual as directed

DO NOT...

- Discuss, disseminate, or otherwise reveal the contents of the test to anyone.
- V through the Pennsylvania Department of Education. item or any section of a secure test in any manner inconsistent with the instructions provided by and Keep/save, copy, reproduce, or use any test, test item, specific test content, or examinee responses to any
- Review student responses in the answer booklet.
- Review test booklets containing the test items.
- \bigvee student to do so. Alter, influence, or interfere with a test response in any way, fill in any unanswered item, or instruct the
- Discuss or provide feedback regarding test items.
- \bigvee Copy or reproduce any portion of the secure test materials or provide answer keys.
- Erase or change student answers.
- \bigvee Make false or misleading statements about assessment results, including inappropriate interpretations, inaccurate reports, or unsubstantiated claims.
- Erase stray marks or darken bubbles.
- Assist in, direct, aid, counsel, encourage, or fail to report any of the actions prohibited in this section.

Appendices

<u> Gebra I</u>



CODE **OF CONDUCT FOR TEST TAKERS**

DO...

- Get a good night's sleep
- Eat a good breakfast.
- Listen to, read, and follow all directions given.
- Ask questions if you do not understand the directions.
- to read any open-ended items and writing prompts carefully before responding. Read each question carefully, especially multiple-choice items that ask for the "best answer." Also, be sure
- Be careful when marking your answers so that you do not skip spaces or fill in the wrong sections.
- Make sure to completely fill in the bubble for the answer you select and erase completely any answers you
- Keep your eyes on your own test.
- Try to answer each test item.
- submitting your final responses online. Check that you have completed all the test items in the test section before closing your test booklet or
- Report any suspected cheating to your teacher or principal.

DO NOT...

- Bring notes with you to the test.
- applicable, to the test. Bring any electronic devices (e.g., cell phones, smart phones, etc.) other than an approved calculator, if
- Share a calculator with others.
- answers. Mark only the bubble for the one correct answer you have chosen. Use the bubbles in the answer booklet to either eliminate possible incorrect answers or possible correct
- Talk with others about questions on the test during or after the test.
- Take notes about the test to share with others.
- Leave an online test session until the session is complete or until instructed to do so

Spring 2015 Keystone Exam Security Certification

(Test Administrator and Proctor)

District:		
School:		
AUN:		
Maintaining the security and integrity in the administration and handling o are essential in order to obtain reliabl	Maintaining the security and integrity of all assessment materials, preventing any dishonest or fraudulent behavior in the administration and handling of the assessment, and promoting a fair and equitable testing environment are essential in order to obtain reliable and valid student scores. In that regard, I certify the following:	dishonest or fraudulent behavion dequitable testing environment certify the following:
Prior to the administration of the assessme and I understand that the assessment mate the Pennsylvania Department of Education.	Prior to the administration of the assessment, I completed the Pennsylvania State Test Administration Training and I understand that the assessment materials are secure, confidential, and proprietary documents owned by the Pennsylvania Department of Education.	ate Test Administration Training oprietary documents owned by
I have not reviewed, discussed, dissen anyone. I have not removed any assess to administer the assessment to a sreleased, or used any assessment, as any item or any section of the secure a	I have not reviewed, discussed, disseminated, described, or otherwise revealed the contents of the assessment to anyone. I have not removed any assessment materials from the school building unless I was specifically authorized to administer the assessment to a student on homebound instruction. I have not kept, copied, reproduced released, or used any assessment, assessment question, specific assessment content, or examinee response to any item or any section of the secure assessment in any manner that is inconsistent with the instructions provided	ne contents of the assessment to nless I was specifically authorized not kept, copied, reproduced intent, or examinee response to nt with the instructions provided
by or through the Pennsylvania Depa an assessment question or in any way in any manner altered or caused the a examinees.	by or through the Pennsylvania Department of Education. I have not provided any examinee with an answer to an assessment question or in any way influenced an examinee's response to any assessment question. I have not in any manner altered or caused the alteration of any examinee response, assessment booklet, or papers used by examinees.	any examinee with an answer to assessment question. I have no ment booklet, or papers used by
I understand that any breach in assessment secuprofessional discipline, and/or criminal prosecution.	I understand that any breach in assessment security could result in the invalidation of assessment results professional discipline, and/or criminal prosecution.	alidation of assessment results
I understand that false statements he	I understand that false statements herein are made subject to the penalties of 18 Pa.C.S. § 4904.	3 Pa.C.S. § 4904.
Administrator/Proctor Name	Administrator/Proctor Signature	Date of Signature

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ATTENTION

less than \$750 up to \$30,000 for a single violation. 17 U.S.C. § 101 et seq. the Copyright Act may include the cost of replacing the compromised test item(s) or a fine of no the taking of a photograph, is a violation of the federal Copyright Act. Penalties for violations of by the Pennsylvania Department of Education. Copying of material in any manner, including MANNER. All material contained in this assessment is secure and copyrighted material owned DO NOT PHOTOGRAPH, COPY, OR REPRODUCE MATERIAL FROM THIS ASSESSMENT IN ANY

General Test Directions

three circles in the image below. If you do not clearly see three circles, please raise your hand. This screen shows an image to check if your computer screen is set up correctly. There should be



Helpful Hints

- There is no time limit to finish the test.
- Only one question at a time will appear on the screen.
- to continue. If you are away from your computer for more than 20 minutes, you will need to log If you need to go away from your computer, click on the Pause button. Click on the Resume button
- by selecting it from the list that appears on the screen. To see your progress on the test, click on the **Review/End Test** button. You may go to any question
- Click on the ? [Help] button to find more information.

Test Directions

the ? [Help] button and choose the Test Directions tab. Read these directions carefully before beginning the exam. To look at these directions again, click on

These page numbers will be shown below the question number, for example, "1 of 3." which to enter your response(s). The constructed-response questions may have multiple pages question has four answer choices. Each constructed-response question has one or more areas in This test has multiple-choice questions and constructed-response questions. Each multiple-choice

Answering Questions

Read each question carefully and choose your answer or enter your response

- For multiple-choice questions, first, find the answer to the question. Then, choose the correct answer by clicking on the answer bubble using the **Pointer** tool.
- 0 answer, go back and check your work for possible errors. Only one of the answer choices provided is correct. If none of the choices matches your
- 0 To change an answer, use the **Pointer** tool to choose a different answer.
- 0 Click on the **Flag** button if you are not sure of the answer to a question. It will mark the question so you know to go back and answer the question later.
- For constructed-response questions, use the keyboard, the equation builder, and the other online tools to enter your response in the areas provided.

?

- For questions that require using the equation builder or constructing a graph, click on the question mark icon [?] in the upper-right corner of those features. This will open **Help**, which offers descriptions on how to use these features.
- 0 An example of the scoring guidelines that professional scorers will use to evaluate your responses to constructed-response questions can be found by clicking on the **? [Help]** button and choosing the **Scoring** tab. You may refer to the Scoring Guidelines at any time while responding to constructed-response questions.
- ω Use tools such as the Cross-Off, Highlighter, Sticky Note, Magnifier, Line Guide, Calculator, **Graphing Tool**, and **Formula Sheet** to assist you during the test.

Navigation

- Use the Next and Back buttons to move from question to question or page to page
- 5 Finally, when you have answered all the questions, click on the Review/End Test button at the bottom of the screen.
- 0 You may check your work by selecting questions from the list that appears on the screen.
- 0 When you have finished and have checked your answers, follow the directions on the screen to exit.

KEYSTONE



REFERENCE

ALGEBRA I CONSTRUCTED-RESPONSE QUESTIONS

GENERAL DESCRIPTION OF SCORING GUIDELINES

4 Points

- The response demonstrates a thorough understanding of the mathematical concepts and procedures required by the task.
- omission in work or explanation that does not detract from demonstrating a thorough understanding and a correct explanation, as required by the task. Response may contain a minor "blemish" or The response provides correct answer(s) with clear and complete mathematical procedures shown

3 Points

- required by the task. The response demonstrates a general understanding of the mathematical concepts and procedures
- The response and explanation (as required by the task) are mostly complete and correct. The general understanding. response may have minor errors or omissions that do not detract from demonstrating a

2 Points

- required by the task. The response demonstrates a partial understanding of the mathematical concepts and procedures
- and/or procedures demonstrated and/or explained. The response may contain some work that is The response is somewhat correct with partial understanding of the required mathematical concepts incomplete or unclear.

1 Point

The response demonstrates a minimal understanding of the mathematical concepts and procedures required by the task.

0 Points

of the mathematical concepts and procedures required by the task. The response has no correct answer and insufficient evidence to demonstrate any understanding

SOFTWARE TOOLS AND FEATURES FOR TEST ADMINISTRATORS

the test administration. The online testing system includes tools and features to assist the Test Administrator in managing the test during

PAUSE/EXIT FUNCTION

lab/classroom for a short break (e.g., restroom break, office visit) during the test administration, the student should being logged out of the test. A student can exit the test by clicking on the Pause button and then selecting Exit. the screen (for test security reasons), and the student has up to 20 minutes to return and resume testing before click this button to pause his or her test. Once a student clicks on this button, the test questions are removed from There is a blue Pause button in the tool bar along the bottom of the screen. If a student needs to leave the computer

a period of less than 20 minutes. The Pause function should be utilized if a student has to leave his or her computer station for any reason for

- is remaining before the test will be automatically exited. There is a countdown timer that will appear on the Pause screen notifying the student of how much time
- Upon resuming, the student is returned to the test where he or she was prior to the pause
- All of the highlights, flags, cross-offs, and sticky notes will remain within the test session
- exited from the test. The student will be able to use the same Test Ticket to log back in to the assessment. If the student does NOT resume the test within 20 minutes of clicking the Pause button, he or she will be

answers for scoring. The student should not **End** the test if he or she has not completed the assessment. The Exit function should be utilized if a student needs to exit the test session without submitting his or her

- The student will be able to use the same Test Ticket to log back in to the assessment
- All of the highlights, flags, cross-offs, and sticky notes will remain within the test session
- If there is an extenuating circumstance in which the student cannot complete the test in the same day, contact the School Assessment Coordinator (SAC) for guidance.

INTERRUPTED TESTING

for that computer is lost. When a student's workstation has been configured to utilize a Local Caching Service (LCS), continue testing the test session will close. The student may then log in to any computer with an available Internet connection to workstation is not configured to utilize the LCS and the Internet connection is lost, a message will be displayed and responses and will transmit them for scoring when the Internet connection for the LCS is restored. If a student's is not present at that time, a warning message will be displayed. If this happens, the LCS will store the student's student attempts to exit the assessment or attempts to submit the assessment for scoring. If Internet connectivity the student will be able to continue testing and will not be aware of the loss of Internet connectivity until the Generally, the only reason that a student should be interrupted during testing would be if the Internet connectivity

KEYSTONE Algebra I Online

Pennsylvania Department of Education will provide additional instructions on how to proceed (800) 451-7849 or by email at PAcustomerservice@datarecognitioncorp.com. Under emergency circumstances, the Coordinator. You may also contact Data Recognition Corporation's Pennsylvania Customer Service Administrator must notify the School Assessment Coordinator, District Coordinator, or District Technology Otherwise, if an unforeseen emergency occurs during testing (e.g., a fire drill, electrical outage), the Test Team

UNPLANNED TEST INACTIVITY

test, the student should not **End** the test. The student should click on the **Pause** button and then the **Exit** button. Test Administrator should instruct all students to either Pause or Exit the test. If the student is not finished with the In the event that a whole class needs to stop testing (e.g., a fire drill, electrical outage, or other emergency), the

mouse and/or keyboard activity is absent for 20 minutes. Note: If students do not pause or exit the test, an inactivity feature will also exit the student from the test if any

- may PAUSE their tests for them. If they do not pause, the test will automatically exit the student after If students will return within 20 MINUTES, instruct all students to PAUSE their tests or the Test Administrator 20 minutes of mouse and/or keyboard inactivity.
- EXIT) or the Test Administrator may EXIT the tests for them. If students will not return within 20 MINUTES, instruct all students to EXIT the test (click PAUSE and then
- or the Test Administrator may PAUSE their tests for them. If it is uncertain whether students will return within 20 MINUTES, instruct all students to PAUSE their tests

regarding any of your students is questioned Please keep a record of system failures such as the loss of the Internet, etc., in the event an excessive login report PDE has DRC (the test contractor) prepare a report on excessive logins by the same student to an online assessment.

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STUDENT LOGIN TASKS

Roster provides a list of students who are registered as part of a Test Session to participate in an assessment. Below Student Login Tickets (Test Tickets) are secure materials and must be treated appropriately. The Student Login is a list of tasks that should be performed to properly handle, distribute, and collect the Student Login Tickets.

PRIOR TO TESTING

- all student information is correct, including accommodations, if applicable to the assessment specified Review the Student Login Roster to ensure all students scheduled to test have a login ticket and that
- 2 specified above and reprint the Student Login Tickets. If students are missing from the Student Login Roster, make the proper adjustments to the Test Session
- ω If a student is missing an accommodation or has been incorrectly assigned an accommodation, notify your School Assessment Coordinator and reprint the Student Login Ticket
- 4 If student information is incorrect, make note of it and notify your School Assessment Coordinator.
- 5. Separate Student Login Tickets.

WHEN STUDENTS ARE AT THEIR COMPUTER STATIONS

- Distribute the Student Login Tickets to the students.
- Ŋ that has been set up to handle accommodations. Ensure that students with accommodations noted on their Student Login Tickets are seated at a computer
- ω Instruct the students to log in to the assessments using the Username and Password on their Student Login Tickets.

WHEN STUDENTS ARE FINISHED TESTING

Collect all Student Login Tickets after students have completed testing and return them along with the Student Login Roster to the School Assessment Coordinator.

students receive the correct Student Login Ticket. **NOTE:** The Username on the Student Login Ticket is the student's PAsecureID and can be used to verify that

KEYBOARD SHORTCUTS FOR SYSTEM

shortcuts are considered part of the secure testing materials and must be returned to the School Assessment Coordinator for secure storage and destruction. These keyboard shortcuts may be copied from this book and reproduced as necessary. The copies of these keyboard

SYSTEM SHORTCUTS

Keyboard Shortcut	Function Transfers the focus from one button to the post (from left to tick). The focus is indicated by
Tab	Transfers the focus from one button to the next (from left to right). The focus is indicated by a red box that appears around the selected tool or function button when the Tab key is pressed.
Shift + Tab	Transfers the focus from one button to the next (from right to left). The focus is indicated by a red box that appears around the selected tool or function button when the Shift key and Tab key are pressed.
Enter/Space Bar	Activates the tool or function highlighted by the red box. Pressing the Enter key or Space Bar a second time deactivates the tool or function (with the exception of tools that keep the focus, such as Sticky Notes).
Esc	Closes the Magnifier and? [Help] button when activated. If the red box is activated and the Esc key is pressed while on the tool bar without having any tools activated, the red box will move to the pointer button.
ABCD, abcd	Selects an answer option on a multiple-choice question. Entering one of the letters fills or unfills the letter bubble before each answer option. Both uppercase and lowercase letters can be used.
Alt + X	Exits the system from each page that has an Exit button.
Ctrl + {Left, Right, Up, Down Arrows}	Moves any pop-up tool like the ? [Help] button around the screen. [Does not work with Sticky Notes.]
Ctrl + Minus (Numerical Row)	Rotates the active tool 1 degree.
Up/Down Arrows	Moves the cursor up and down through a list of choices (questions on the Review/End Test page).
Enter	Selects the highlighted test question from the Review/End Test page. Selects Sign In button after Username and Password are entered. Selects Continue from the Student Verification Page. Selects the Go To Page number within the quick navigation dropdown arrow.
Ctrl + Tab	Switches between multiple active pop-up tools on the screen.
Alt—R	Activates the Review/End Test button and moves the user to the Review page of the test.
Alt—P	Activates the Pause button and pauses the test.
Alt—F	Activates the Flagged button and marks an item as flagged or removes a flag from an item.
Alt—B	Activates the Back button and moves the student back a question.
Alt—N	Activates the Next button and moves the student forward a question.

Keyboard Shortcut	Accommodations Function
F7	Activates "Start Points" (audio tracks) button when Audio is active (on a Mac use FUNC F7).
F8	Activates the Play/Pause button when Audio is active (on a Mac use FUNC F8).
F9	Activates the Stop button when Audio is active (on a Mac use FUNC F9).
Alt—O	Activates the Options button and opens or closes the Color Chooser selection pop-up window.



PENNSYLVANIA CALCULATOR POLICY

upon the School Assessment Coordinator to ensure that all calculator policies are implemented and followed, where the calculator is permitted, the student must adhere to the guidelines listed below. It is incumbent these programs prior to the assessment. In addition, the memory must be cleared on the calculator following installed. Please note that if a student wants to restore the deleted programs, the student will need to back up including making sure calculators have no programs stored in their memory other than those that are factory If a student chooses to use a calculator (other than the online options) on the Keystone Exams or PSSA in sections each test session of the assessment.

The following are **not** permitted for the PSSA or Keystone Exams:

- Noncalculators such as cell phones, smart phones, PDAs, laptops, tablets, pocket organizers, etc.
- or wireless capabilities are disabled Calculators with infrared, Wi-Fi, Bluetooth, or other beaming or wireless capabilities, unless the beaming
- Calculators with QWERTY keyboards, typewriter-like keyboards, or keypads (e.g., Dvorak)
- Calculators with built-in Computer Algebra Systems (CAS)
- Calculators that make noise, have paper tape, need to be plugged in, or talk; these specific calculators can only be used as a required accommodation as stated in the *Accommodations Guidelines*
- Calculators shared by students during a test session
- Any and all nonfactory programs or information stored in the calculator

exhaustive list of specific calculators, devices, or technologies that cannot be used on the PSSA or Keystone This calculator policy is intended to be a general description of what is not allowed. It is not meant to be an Exams. Please note that as technology changes, this policy may also change.

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KEYSTONE Algebra I Online

These keyboard shortcuts may be copied from this book and reproduced as necessary. The copies of these keyboard shortcuts are considered part of the secure testing materials and must be returned to the School Assessment Coordinator for secure storage and destruction.

ONLINE CALCULATOR SHORTCUTS

Keyboard Shortcut	Function
Alt + Delete	Clears the calculator screen.
1	Works as a shortcut key for subtracting on all calculators.
:	Works as a shortcut key for factorial on Scientific Calculator/Graphing Tool.
(Works as a shortcut key for using open parenthesis on Scientific Calculator/Graphing Tool.
)	Works as a shortcut key for using closed parenthesis on Scientific Calculator/Graphing Tool.
*	Works as a shortcut key for multiplying on all calculators.
1	Works as a shortcut key for dividing on all calculators.
@	Works as a shortcut key for squaring on Scientific Calculator/Graphing Tool.
+	Works as a shortcut key for adding on all calculators.
0-9	Work as shortcut keys for numeric entry on all calculators.
Backspace	Works as a backspace on all calculators.
Delete	Works as a delete function on all calculators.
Enter	Works as an enter key on all calculators (this will not work on the Graphing Tool).
>	Works as a shortcut to take a number to a specific power on Scientific Calculator/Graphing Tool.
,	Works as the negate key on the Basic Calculator.



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SPRING 2015 KEYSTONE EXAMS ALGEBRA I ONLINE EXAM

ONLINE DIRECTIONS FOR ADMINISTRATION MANUAL

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ALGEBRA I

SPRING 2015 EXAM

DIRECTIONS FOR ADMINISTRATION MANUAL

MAY 2015

Pennsylvania Keystone Exams Algebra I—Spring 2015

Exam Security Reminder

- student taking the exam during the test session. No person is to read or view the contents of an exam at any time except the
- If you suspect a test security violation, consult the School Assessment (PDE) at (717) 787-4234. Coordinator (SAC) or contact the Pennsylvania Department of Education

General Responsibility Summary for the Test Administrator (TA)

The Test Administrator (TA) is responsible for the following tasks:

- taking the Pennsylvania State Test Administration Training (PSTAT) online module
- Directions for Administration Manual becoming familiar with the exam administration procedures provided in the Algebra I Spring 2015 Exam
- receiving student exam materials from the School Assessment Coordinator on the day his or her class is scheduled to take the Algebra I Spring 2015 Exam
- verifying that student demographic information is correct on each answer booklet
- alerting the School Assessment Coordinator if any student information is incorrect and needs to be
- distributing the test booklets and answer booklets to the students at the time of the exam
- Spring 2015 Exam module reading the directions for administration to the students at the start and end of each Algebra I
- monitoring the exam environment during the scheduled exam time
- collecting, accounting for, and returning all student exam materials and all scratch/grid paper to School Assessment Coordinator
- reviewing and understanding the Test Administrator/Proctor Test Security Certification and returning the signed form to the School Assessment Coordinator after the administration of any Keystone Exam

KEYSTONE Algebra I

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_	MAINTAIN EXAM SECURITY
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_	PART I: PROCEDURES FOR THE ALGEBRA I SPRING 2015 EXAM

INTRODUCTION

and the procedures for administering the exam before the testing window (May 13-27, 2015). Administrator has given; therefore, Test Administrators are to become thoroughly familiar with this manual the Commonwealth of Pennsylvania. The administration of this exam may differ from other assessments the Test Test Administrator with directions that will ensure a standard assessment environment in schools throughout This manual is to be used for the administration of the Algebra I Spring 2015 Exam. The manual provides the

MAINTAIN EXAM SECURITY

District and School Assessment Coordinators, Test Administrators, principals, and all other individuals who are involved in this assessment program must maintain the security of all exam materials. Together, they share the in accordance with security mandates and other general procedures. These include, but are not limited to, the responsibility for ensuring that all exam materials and student responses are handled securely, confidentially, and

- allowed to view the content of the exam materials. Except where allowed by a specific written accommodation, only those students being tested are
- No materials from the exam may be copied or recorded in any manner.
- student at any time other than during the administration of the exam. Student responses are not to be reviewed for accuracy or completeness by anyone other than the
- The student may not review responses at any time other than during the administration of the exam.

and for the immediate return of exam materials after the session. the Test Administrator to receive the exam materials on the day of the exam, just prior to the scheduled session, access to the secure exam materials before the administration day; however, this manual is not considered secure secure exam materials must never be left unattended or in open areas. Test Administrators must not be given The principal or his/her designee, such as the School Assessment Coordinator (SAC), will make arrangements for exam material and should be provided to Test Administrators for review prior to the administration of the exam. Each student taking the Algebra I Spring 2015 Exam will receive a test booklet and an answer booklet. These

Coordinator immediately at the end of each session. Administrator, including any scratch/grid paper used during the exam, must be returned to the School Assessment for and returned to the School Assessment Coordinator. In addition, all other materials assigned to the Test At the end of each Algebra I Spring 2015 Exam module, all test booklets and answer booklets must be accounted

a suspension of their teaching certificate(s), a revocation of their teaching certificate(s), and/or a suspension or the Professional Educator Discipline Act, 24 P.S. § 2070.1a etseq, including a private reprimand, a public reprimand, the integrity of the state assessment system in any manner will be subject to professional disciplinary action under use of old Pennsylvania assessments as preparation tools, etc.) is strictly prohibited and will be considered a of this manual and in the Keystone Exams Handbook for Assessment Coordinators integrity of the exam remains above reproach, see the Ethical Standards of Test Administration, found in Appendix A prohibition from being employed by a charter school. For more information regarding guidelines to ensure that the violation of exam security.¹ Those individuals who divulge exam questions, falsify student scores, or compromise not limited to, group work, teacher coaching, teaching or release of the performance tasks or exam questions, Department of Education (PDE). Any deviation from the exam procedures outlined in this manual (including, but The Pennsylvania Keystone Exams are a measure of individual student achievement conducted by the Pennsylvania

Pennsylvania Department of Education

¹ This prohibition excludes the item and scoring samplers (released items).

PART I: PROCEDURES FOR THE ALGEBRAT SPRING 2015 EXAM

certifies that all security measures for the Keystone Exams were maintained, including, but not limited to Exam must sign and date a Test Administrator/Proctor Test Security Certification. The Test Security Certification After administering any Keystone Exam, every Test Administrator involved in the administration of this Keystone

- following test security regulations and procedures,
- handling secure assessment materials appropriately, and
- maintaining confidentiality of information contained within secure assessment materials

of the Keystone Exams in any way, the Test Administrator must read and understand the Test Administrator/Proctor administration of this Keystone Exam. Prior to receiving any exam materials or participating in the administration Coordinator will distribute copies of this certification to all Test Administrators and Proctors involved in the School Assessment Coordinator. Test Security Certification. Upon completion of the exam administration, the signed form must be returned to the Exams Handbook for Assessment Coordinators. Prior to the administration of the exam, the School Assessment A copy of the Test Administrator/Proctor Test Security Certification is provided in Appendix C and in the Keystone

FOLLOW THE EXAM SCHEDULE SET BY THE SCHOOL ASSESSMENT COORDINATOR

violation of exam-security practices. according to needs and available facilities. However, exam situations created to inflate assessment scores are a performance. The exam should be given in a regular classroom setting if possible. Other settings may be used School Assessment Coordinator. Appropriate exam conditions optimize the chance for greater accuracy of the The Algebra I Spring 2015 Exam must be administered within the exam window on the dates assigned by the

to be completed in the same amount of administration time. See Part II: Exam Timing for more information on and afternoon of the same day. The School Assessment Coordinator must discuss the schedule with the Test longer than the recommended testing time. Exam modules must not be scheduled back-to-back in the morning session. Since the Keystone Exams are untimed, there may be instances in which the actual testing times take The Algebra I Spring 2015 Exam consists of two modules, and each module must be scheduled as a separate exam administration time and testing time. Administrators at least one week prior to the exam dates. Please note that each module in this exam is designed (or in the afternoon). Instead, the exam modules must be divided across two days or divided across the morning

ADVANCE CONSIDERATIONS FOR EXAM ADMINISTRATION

includes procedures that students may not have encountered before. The procedures listed below must be followed before administering the Algebra I Spring 2015 Exam. This exam

- The School Assessment Coordinator will receive a Keystone Exams Handbook for Assessment Coordinators that provides additional, detailed information about the exam. This document is posted on these portals:
- https://pa.drcedirect.com [Click on "Documents" under the "General Information" tab.]
- www.education.state.pa.us [Click on the green check mark and select "Keystone Exams."]



- administration, the Test Administrator must do the following: in advance in order to become familiar with the procedures for administering the exam. Prior to the The entire Algebra I Spring 2015 Exam Directions for Administration Manual (this document) must be read
- Become familiar with the exam schedule and the procedures for allowing extended exam time
- Follow the directions of the School Assessment Coordinator for maintaining exam security.
- Plan sufficient time for distribution and collection of materials.
- taking place. A quiet, calm atmosphere is essential for concentration on the task. Post a "Testing—Do Not Disturb" sign on the door(s) to the classroom to indicate that an exam session is
- Plan to arrange student seating to prevent student interaction during the exam sessions

FART I: FROCEDURES FOR THE ALGEBRA I SPRING 2013 EXAM

- Student Precode Labels are supplied for most students; however, if any student does not have a Student Precode Label, a District/School Label must be used:
- **Prior** to the start of the exam, fill in the student's name in the boxes on page 1 (cover) of the answer booklet
- **Prior** to the start of the exam, complete the applicable portions on page 2 of the answer booklet.
- Contact the School Assessment Coordinator for further direction on barcode labels.
- essential that this grid is completed for ALL students. enrolled in a Keystone-related course from those students that have completed the course in the past. It is The Complete for All Students grid on page 1 of the answer booklet distinguishes students who are currently

Labels and students using District/School Labels. first bubble. If a student is **not** currently enrolled in a Keystone-related course but is taking the exam for federal If a student is currently enrolled in a Keystone-related course and is taking the corresponding exam, darken the accountability purposes, darken the second bubble. This grid must be completed for students with Precode

- Review and understand the Test Administrator/Proctor Test Security Certification found in Appendix C (contact your School Assessment Coordinator for more information).
- Be aware of test accommodations ("Test Administrator transcribed student responses," "Extended time," etc.) Guidelines for English Language Learners. These documents are posted on these portals: that are outlined in the 2015 PSSA and Keystone Accommodations Guidelines and in the 2014–15 Accommodations
- https://pa.drcedirect.com [Click on "Documents" under the "General Information" tab.]
- www.education.state.pa.us [Click on the green check mark and select "Keystone Exams."]

questions read aloud" under "Student used the following Presentation Accommodations" on page 3 of the If reading the entire exam is used as an accommodation, school personnel must bubble "All test items/ under "Student used the following Presentation Accommodations" on page 3 of the student's answer booklet. Note: For the Algebra I Spring 2015 Exam, any student, regardless of IEP status, may have a word, phrase, or student's answer booklet. However, it is only appropriate to read all test items aloud if this practice is documented as an accommodation. phrase, or test item to be read aloud, school personnel must bubble "Some test items/questions read aloud" test item read aloud upon request. If the student has a documented need for more than an occasional word

- booklet and an answer booklet with the same form number designation. Spring 2015 Exam, there are twenty-four (24) different forms labeled 01 through 24. Students must use a test A form number is on the front cover of each test booklet and each answer booklet. For the Algebra I
- If an exam security violation is suspected, contact the School Assessment Coordinator or the Pennsylvanian security violation is suspected, contact the School Assessment Coordinator or the Pennsylvanian security violation is suspected, contact the School Assessment Coordinator or the Pennsylvanian security violation is suspected, contact the School Assessment Coordinator or the Pennsylvanian security violation is suspected, contact the School Assessment Coordinator or the Pennsylvanian security violation is suspected, contact the School Assessment Coordinator or the Pennsylvanian security violation is suspected.Department of Education immediately.

PREPARE THE STUDENTS FOR THE EXAM

- Coordinator. Inform students in advance of the schedule for the exam sessions, as communicated by the School Assessment
- distributing assessment materials and shall return them upon completion of the assessment during the administration of the exam. Students must be informed of this policy in advance and encouraged Students will not be permitted to have cell phones, cameras, or any other electronic devices in their possession to leave such items at home on exam days. The Test Administrator must collect all such devices prior to
- not limited to, sanctions associated with determined ramifications/sanctions for student misconduct during the Keystone Exams. This includes, but is In addition, PDE encourages school districts and schools to inform students before testing of the locally
- cheating and
- sharing and/or reproduction of test content.
- administration, students must indicate that they understand the Code of Conduct for Test Takers that their Test students understand the importance of each point in the code of conduct before testing begins. Prior to the ensure that all students understand this code of conduct. Administrator has reviewed with them. Test Administrators should answer any questions that students have to Handbook for Assessment Coordinators, with all students prior to the scheduled exam time. It is essential that Discuss the Code of Conduct for Test Takers, found in Appendix B of this manual and in the Keystone Exams
- dictionaries that include word definitions or pictures are not allowed. If using this accommodation, school dictionaries that translate native language to English or English to native language. Bilingual/translation Students may not use a dictionary or a thesaurus for any part of this exam. Note: an exception is for English personnel must bubble "Translation dictionary for ELL student" under "Student used the following Response Language Learners (ELL) taking any portion of the exam. They may use word-to-word bilingual/translation Accommodations" on page 3 of the student's answer booklet.
- Students must use a No. 2 pencil; an ink pen may not be used.
- and returned to the School Assessment Coordinator. Students must not use highlighters on the answer answers in the answer booklet. They may also use scratch/grid paper. All scratch/grid paper must be collected Students may highlight, underline, and make notes or comments in the test booklet, but they must record their
- the answer booklet. be incorrect or marking multiple answers thought to be correct) but should only mark their final response in Students should not make any extraneous marks in the answer booklet (e.g., crossing out answers believed to
- choices. These multiple-choice questions and answer choices are found in the test booklet. Students will read marked in the test booklet will not be scored. each question and record their answer in the space provided in their answer booklet only. Answers written or The Algebra I Spring 2015 Exam includes questions that require students to select from four possible answer
- appear in the answer booklet only. Students will read each question and write their responses in the spaces The Algebra I Spring 2015 Exam includes questions that require students to write a response. **These questions** provided in the answer booklet only. **Answers written in the test booklet or on scratch/grid paper will not**

- posted on these portals: more information, see the Pennsylvania Calculator Policy in Appendix E of this manual. This document is also calculators are optional but recommended.) Note: Students may not share calculators during the exam. For Students may use calculators for the Algebra I Spring 2015 Exam. (Scientific calculators and graphing
- https://pa.drcedirect.com [Click on "Documents" under the "General Information" tab.]
- www.education.state.pa.us [Click on the green check mark and select "Keystone Exams."]



Students are permitted to

- use scratch/grid paper. (Students may use it to the exam.) create their own graphic organizers, etc., during
- highlight, underline, and make notes or comments highlighters to mark the answer bubbles.) in the test booklet. (Students should not use
- use a calculator on the exam in accordance Appendix E). with the Pennsylvania Calculator Policy (see

Students are NOT permitted to

- use preprinted graphic organizers. cameras, any type of computer, or any mobile possess or use cell phones, smart phones,
- possess or use dictionaries (with the exception responding to any part of the exam. entertainment devices, smart watches) when device with a camera and/or Internet access (e.g., tablets, MP3 players, gaming systems,

of ELL students), thesauri, and spell- or grammar-

checkers when responding to any part of the

exam.

PREPARE THE CLASSROOM FOR THE EXAM

proceed smoothly. Good organization of exam materials and well-executed procedures will make the administration of the exam

Remove or cover all classroom instructional materials that may affect the validity of the Algebra I Spring 2015 Exam

DO NOT DISPLAY:

- mathematics terms and/or definitions
- mathematics rules and properties
- examples of problems and answers
- multiplication tables

- algorithms, algebraic equations, graphs, illustrations or drawings of geometric shapes, number lines, etc.

instructions on how to use a calculator

Note: This is not an exhaustive list. These are general examples of what is not permitted. Any materials that may contain content that could be tested must be removed or covered.

This document is also posted on these portals: in the classroom. (Each student test booklet contains a copy of the general scoring guidelines for personal use.) The General Description of Scoring Guidelines used for Algebra I constructed-response questions may be displayed

- https://pa.drcedirect.com [Click on "Documents" under the "General Information" tab.]
- www.education.state.pa.us [Click on the green check mark and select "Keystone Exams."]

sharpened No. 2 pencils with good erasers and some scratch/grid paper. Extra pencils must be available for the students. Students must not be permitted to sharpen pencils during the exam sessions. Each student must have at least two Posting a "Testing—Do Not Disturb" sign on the door(s) to the classroom indicates that an exam is in session. student interaction during the exam sessions. Disturbances must be kept to a minimum during the exam sessions. A quiet, calm atmosphere is essential for concentration on the exam. Student seating must be arranged to prevent

REQUIRED EXAM MATERIALS

and barcode printed on the back cover. These security numbers should be used to track the distribution and each administration day. After each administration, exam materials must be returned immediately to the School returned to Data Recognition Corporation (DRC). collection of secure exam materials. All secure exam materials assigned to a school must be accounted for and Assessment Coordinator for secure, overnight storage. **Note:** Every answer booklet has a unique security number The School Assessment Coordinator will provide the Test Administrator with the appropriate exam materials on

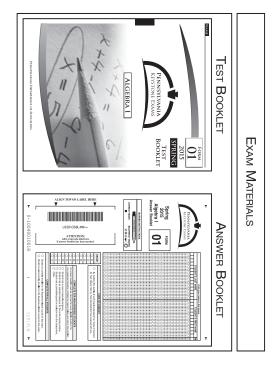
INVENTORY THE EXAM MATERIALS

For the person administering the exam:

- ☐ One Algebra I Spring 2015 Exam *Directions for Administration Manual* (this document)
- "Testing—Do Not Disturb" sign(s) to hang on the classroom door(s)

For each student taking an exam:

- ☐ One Algebra I Spring 2015 Exam Test Booklet (There are twenty-four [24] different forms labeled 01 through 24. Students must use an answer booklet and test booklet with the same form number designation.)
- □ One Algebra I Spring 2015 Exam Answer Booklet with a Student Precode Label or a District/School Barcode Label
- ☐ Two sharpened No. 2 pencils with good erasers
- ☐ Scratch/grid paper for each module
- One calculator (Scientific calculators and graphing calculators are optional but recommended. The school Appendix E of this manual. This document is also posted on these portals: or the students may provide the calculators.) For more information, see the Pennsylvania Calculator Policy in
- https://pa.drcedirect.com [Click on "Documents" under the "General Information" tab.]
- www.education.state.pa.us [Click on the green check mark and select "Keystone Exams."]



DAMAGED EXAM BOOKLETS

insert pages from one answer booklet into another. Multiple documents for one student and loose pages will not booklet with the circles filled in. Applicable portions of page 2 of the booklet should also be completed. Do not student's name, as it appears on the Precode Label, should be placed in the grid on the front cover of this new previous responses into the undamaged answer booklet. On the new booklet, affix a District/School Label. The the exam has been completed, the School Assessment Coordinator or designee must transcribe all of the student's the point where the defect was discovered and use the new answer booklet for the remainder of the exam. After has already begun one or both modules of the exam, he or she should start working in the new answer booklet at with an answer booklet of the same form designation and allow the student to continue working. If the student If a student receives an Algebra I Spring 2015 Exam Answer Booklet with damaged or missing pages, replace it

the School Assessment Coordinator. front cover of the damaged booklet. Return the damaged answer booklet with your school's answer booklets to Write "DEFECTIVE" on the damaged answer booklet and apply a "Do Not Score" label over the existing label on the

GENERAL ORGANIZATION OF THE EXAM

one week prior to the exam dates. Enough time must be scheduled for the preparation of the classroom. Each exam session. The School Assessment Coordinator must discuss the schedule with the Test Administrator at least module in the Algebra I Spring 2015 Exam is designed to be completed in the same amount of administration time. The Algebra I Spring 2015 Exam consists of two modules, and each module must be scheduled as a separate Administration times provided below are approximate and are supplied for scheduling purposes only.

85–90	75	10–15	4	23	2	Algebra I
85–90	75	10–15	4	23	1	Algebra l
d (in minutes) Total Administration	me Needer Actual Exam	Estimated Time Needed (Administrative Actual Tasks Exam	Constructed- Response Questions	Multiple- Choice Questions	Module	Course

CODE OF CONDUCT FOR TEST TAKERS

The Code of Conduct for Test Takers provides students with guidelines that students should follow before, during, and after each assessment. This code of conduct must be reviewed with all students in advance of the testing day. of Conduct for Test Takers that has been reviewed with them by their Test Administrator (or teacher). It is important Prior to taking the assessment, students will be asked to darken a circle to indicate that they understand the Code students understand each point in this code of conduct. that the Code of Conduct for Test Takers is reviewed with all students and all questions are answered such that all

COMMUNICATE EXAM INFORMATION

should be posted. information must be posted on a chalkboard or dry-erase board. Only information about the current module During the exam, students are to respond to a specific set of questions. The following Algebra I Spring 2015 Exam

Start on page 6 Answer Booklet Start on page 5	Exam Questions 1–27	Algebra I Module 1
--	---------------------	-----------------------

|--|

In addition, the following statement must be posted on the chalkboard or dry-erase board:

booklet. Go back to make sure you have answered each question before closing your test booklet and answer

ART II: EXAM TIMING

EXTENDED EXAM TIME

or she works slowly. It is equally important, however, to encourage students to work in a timely manner to finish the exam. Students should close their test booklets and answer booklets when they have finished the module of Students should not feel rushed while they are taking the exam, and no student should be penalized because he The Algebra I Spring 2015 Exam is an untimed assessment. Not all students will finish the exam at the same time

the exam in which they have been working. Test Administrators should collect exam materials when students are finished testing rather than keeping them closed on the students' desks. Students who finish early may sit quietly or read for pleasure until all students have finished the exam. Students with special requirements and/or abilities (i.e., physical, visual, auditory, or learning disabilities as defined by their IEP or service contracts) and students who just work slowly may require extended time. Special exam situations should be arranged for these students. When all students have indicated they have finished an exam module, end the module. Students should then return to regular activities.

Students may request extended time if they indicate they have not completed an exam module. Such requests should be granted if the Test Administrator finds the request to be educationally valid. Not permitting ample time for students to complete the exam module may impact performance.

Since the Keystone Exams are untimed, there may be instances in which the actual testing times take longer than the recommended testing time. Exam modules must **not** be scheduled back-to-back in the morning (or in the afternoon). Instead, the exam modules must be divided across two days or divided across the morning and afternoon of the same day.

For example, do not schedule both Module 1 and Module 2 testing events to occur during the same morning. Rather, schedule Module 1 testing for a morning and schedule Module 2 testing either the afternoon of the same day or sometime the following day.

exam module. As a general guideline, the exam session should be closed when all the students indicate they have finished an

When allowing extended time for an exam session for a portion of the student population:

- Do not allow students to attend a lunch period with other students if the lunch period occurs between the original exam session and the extended exam session.
- Do not allow students to attend any classes or related activities between the original exam session and the extended exam session.
- Do not allow any overnight extensions.
- Do not allow students to return to a module after the completion of that module.

begun or in a separate classroom a Test Administrator to monitor any extended exam session, whether in the classroom where the exam was Do not allow the extended exam session to be administered without monitoring. It is the responsibility of

EXAM ADMINISTRATION REMINDERS

administration instructions carefully ensures that all students are tested under similar conditions in all classrooms. It is important to use standardized exam procedures to maintain fairness for all students. Following the exam

Before exam administration:

- Be sure each student has the correct test booklet and answer booklet
- Be sure students understand where and how to mark or write their answers.
- Follow the directions of the School Assessment Coordinator for maintaining exam security.

During exam administration:

- Follow the directions of the School Assessment Coordinator for maintaining exam security.
- Help students approach the exam in a positive manner.
- Encourage students to keep trying.
- Clarify directions for students having difficulty.
- information and may not give information that provides clues concerning exam questions or answer needed during the administration; however, the Test Administrator may not paraphrase or offer additional The Exam Directions are printed in Appendix D of this manual. They may be repeated to students as
- In this exam, the presentation and content of exam questions vary from one form to another. This may require form-specific responses from the Test Administrator. variation is an intentional element of the Keystone Exams. Questions from students about directions

Part III - Module 1

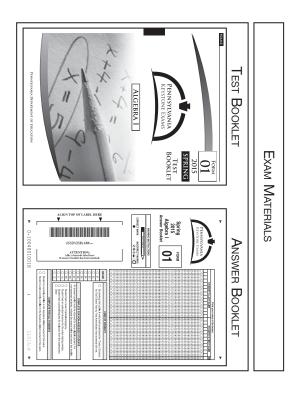
For the remainder of this manual, indented text in bold type is to be read aloud to students exactly as written. All other text is information for the Test Administrator.

of this manual. When ready to start the exam, the Test Administrator should begin with the next section found on the next page

START THE EXAM

front covers facing up. any exam materials. First distribute test booklets with front covers facing up; then distribute answer booklets with possession of a cell phone, camera, or other electronic device. Collect all electronic devices prior to distributing Make sure that all students have two sharpened No. 2 pencils with good erasers. Make sure that no student is in

- is not available Answer booklets must have a Student Precode Label or a School/District Label if the Student Precode Label
- The "Complete for All Students" box on page 1 of the answer booklets must be completed for all students.



Part III – Module 1

Note: booklet matches the form number on the answer booklet distributed to each student. twenty-four (24) different forms labeled 01 through 24. Make certain that the form number on each test A form number is on the front cover of each test booklet and each answer booklet. There are

Say:

you to do so. Exam Test Booklet and Answer Booklet. Do not open your test booklet or answer booklet until I tell Welcome to the Pennsylvania Keystone Exams. Each of you should have an Algebra I Spring 2015

is not the same, raise your hand, and I will give you a new test booklet. the upper left-hand corner of the answer booklet. If the number in the box on your answer booklet is a number from 01 through 24. Make sure that this number is the same as the number shown in Look at the cover pages of the two booklets. In the upper right-hand corner of the test booklet, there

distribution. When all students are ready, say: Check to see that each student has the correct test booklet and answer booklet. Correct any errors in booklet

the top of the page. Look at the front cover page of your test booklet. Print your full, legal name on the line provided at

of each exam session. Make certain that all students have recorded their names correctly. When students are ready, front of the test booklet ensures accurate distribution of the correct test booklet to each student at the beginning Pause while students print their names on the line on the cover of their test booklets. The student's name on the continue with the next section found on the next page of this manual.

DIRECTIONS FOR BARCODE [DISTRICT/SCHOOL OR STUDENT PRECODE] LABELS

Say and demonstrate:

Check to see if the barcode label has a colored stripe on it. Look at the cover page of your answer booklet. In the lower left-hand corner is a barcode label.

If the barcode label DOES NOT have a colored stripe, do nothing more at this time

the boxes on the right-hand side of the cover page of the answer booklet. If the barcode label DOES have a colored stripe, check to make sure that your full name is printed in

the number of boxes provided. Start at the left and print one letter in each box. Print as many letters of your last name as will fit in print your name now. Print your last name in the boxes below the words "STUDENT'S LAST NAME." If the barcode label DOES have a colored stripe and your name IS NOT printed in the boxes, you must

student does not have a Student Precode Label. When all students are ready, say: Assessment Coordinator. See page 3 and page 21 of this document for more information on what to do if Pause while students fill in their last names. Note: If any barcode label has an error on it, please contact the School

a shortened first name. Print as many letters of your first name as will fit in the number of boxes Now that you have printed your last name, find the words "STUDENT'S FIRST NAME" and print each letter of your first name. You must print your full, legal name. Please do not print a nickname or

Pause while students fill in their first names. When all students are ready, say:

your middle name in this box. If you have no middle initial, leave it blank. Now that you have printed your first name, find the box below the letters "MI." Print the first letter of

Are there any questions?

Answer all questions and then say and demonstrate to the entire class:

the first letter of your middle name. circles for each letter of your last name. Then darken the circles for each letter of your first name and same letter as the one printed in the box. Darken the circle for that letter. Now darken the remaining must now go back to the first letter of your last name. Find the circle below the box that has the If your name is printed in the boxes, whether it was printed for you or you have just printed it, you

or if a student has no middle initial. If a student has more than one middle name, use the first middle name. Use a need to darken the blank circle beneath blank boxes unless a space is within a student's name (as in "Mary Lou") Walk around the room to check that students are filling in the circles correctly. Please note that students do not hyphen to separate hyphenated names. When all students have completed this task, say:

Are there any questions?

Answer all questions. Then say:

questions about the Code of Conduct for Test Takers, raise your hand. you understand the Code of Conduct for Test Takers, darken the circle inside the box now. If you have understand the Code of Conduct for Test Takers that my Test Administrator has reviewed with me." If Read the statement inside this box silently as I read it aloud. "By marking this bubble, I verify that I In the bottom right-hand corner of your answer booklet is a box labeled "CODE OF CONDUCT."

box. When students are ready, continue with the next section found on the next page of this manual Answer student questions until all understand the Code of Conduct for Test Takers and darken the circle inside the



ART III: DIRECTIONS FOR ADMINISTERING MODULE

ADMINISTER THE ALGEBRA I EXAM—MODULE 1

When all students are ready, say:

Spring 2015 Exam. will now distribute scratch/grid paper to be used with this module of the Algebra

Distribute scratch/grid paper. When all students are ready, say:

box now. is showing. In the middle of the page is a box labeled "ATTENTION." Read the paragraph inside this your best effort. Open your test booklet to page 2. Fold your test booklet back so that only page 2 Now we are ready to begin Algebra I—Module 1. Carefully follow the directions, and give this exam

Pause for students to read the paragraph. Then say:

Are there any questions about this paragraph?

Answer all questions. When all students are ready, say:

Turn to page 3 in your test booklet. Fold your test booklet back so that only page 3 is showing.

booklets back so that only page 3 is showing. When all students are ready, say: Pause while students find the correct page in their test booklets. Make sure all students have folded their test

Look at the directions on page 3. Read the directions silently as I read them aloud.

On the following pages of this test booklet are the Keystone Algebra I Exam questions for Module 1.

You may refer to the formula page at any time during the exam. Formulas that you may need to solve questions in this module are found on page 5 of this test booklet.

calculator π or the number 3.14. You may use a calculator on this module. When performing operations with π (pi), you may use either

Are there any questions?

Answer all questions. When all students are ready, say:

Continue to read the directions on page 3 silently as I read them aloud.

There are two types of questions in each module.

Multiple-Choice Questions

These questions will ask you to select an answer from among four choices.

- First read the question and solve the problem on scratch paper. Then choose the correct answer.
- Only one of the answers provided is correct.
- If none of the choices matches your answer, go back and check your work for possible errors.
- Record your answer in the Algebra I answer booklet.

Are there any questions?



ART III: DIRECTIONS FOR ADMINISTERING MODULE

Answer all questions. When all students are ready, say:

Continue to read the directions on page 3 silently as I read them aloud.

Constructed-Response Questions

These questions will require you to write your response.

- These questions have more than one part. Be sure to read the directions carefully.
- the tasks in the question. You cannot receive the highest score for a constructed-response question without completing all
- explain your reasoning. However, not all questions will require that you show your work or explain If the question asks you to show your work or explain your reasoning, be sure to show your work or you may use the space provided for your work or reasoning, but the work or reasoning will not your reasoning. If the question does not require that you show your work or explain your reasoning,
- answer booklet. Some answers may require graphing, plotting, labeling, drawing, or shading. If All responses must be written in the appropriate location within the response box in the Algebra I answer booklet. you use scratch paper to write your draft, be sure to transfer your final response to the Algebra I

Are there any questions?

Answer all questions. When all students are ready, say:

Continue to read the directions on page 3 silently as I read them aloud.

If you finish early, you may check your work in Module 1 only.

- Do not look ahead at the questions in Module 2 of your exam materials.
- After you have checked your work, close your exam materials.

You may refer to this page at any time during this portion of the exam.

Are there any questions?

Answer all questions. When all students are ready, say:

Now turn to pages 4 and 5 of your test booklet.

Pause while students turn the page in their test booklet. When all students are ready, say:

for Algebra I. Are there any questions? refer to these scoring guidelines at any time while responding to a constructed-response question scorers will use to evaluate your responses to constructed-response questions for Algebra I. You may constructed-response questions. This is an example of the scoring guidelines that professional On page 4 of your test booklet is the General Description of Scoring Guidelines for use with Algebra I

Answer all questions. When all students are ready, say:

test. Are there any questions? formulas to solve questions on this exam. You may refer to the formula page at any time during the The same formula sheet can be found on pages 4 and 10 of your answer booklet. You may use these On page 5 of your test booklet is the formula sheet for use with the Algebra I Spring 2015 Exam.

ALGEBRA I **KEYSTONE**

Answer all questions. When all students are ready, say:

STOP sign in both your test booklet and your answer booklet. STOP sign in your answer booklet. Make sure you continue to respond to questions until you see the in your answer booklet. At the end of Module 1, you will see a STOP sign in your test booklet and a arrows and directions that tell you which questions are in your test booklet and which questions are are not yet finished with Module 1 and you are to continue on to the next page. Follow all GO ON booklet. Look at the GO ON arrow on the bottom of each page. The GO ON arrow indicates that you We are now ready to start Module 1. Turn to page 6 in your test booklet and page 5 in your answer

Are there any questions? materials when you finish. You may read or sit quietly until the rest of the class completes Module 1. booklet and place it inside your test booklet so I will know you have finished. I will collect your exam you have changed an answer or made a stray mark in your answer booklet. Then close your answer for each question in your answer booklet. Make sure that you have completely erased wherever Remember to complete questions 1 through 27 in Module 1 and to mark only one correct answer

Answer all questions. When all students are ready, say:

You may begin.

an answer or that the student has answered an item incorrectly. You may, however, provide clarification of exam needed during the administration. directions. The Exam Directions are printed in Appendix D of this manual. They may be repeated to students as might suggest the correct answer to a question. Do not communicate to a student that the student should "check" While students are taking the exam, be available as a resource. Do not give any individual or group help that

to try all of the tasks (questions) and to complete the exam. Sometimes a word of encouragement is all that is needed to help a student continue to work. Encourage students

five minutes remain in the exam time for the group not yet finished with this exam module, say: information about Extended Exam Time, see Part II of this document. When you have confirmed that approximately all students have completed all questions or when you determine that additional time is not necessary. For more basis if one or more students are continuing to make reasonable progress on the exam. End the session only when each student is to be provided sufficient time to finish the exam, additional time may be allowed on an individual exam materials when students are finished testing rather than keeping them closed on the students' desks. Since The testing time for this module is estimated at 75 minutes, but the actual administration time may vary. Collect

wherever you have changed an answer or made a stray mark in your answer booklet. You have about five minutes to complete Module 1. Make sure that you have completely erased

Allow time for students to erase wherever necessary. When all students are ready, say:

Close your test booklet and answer booklet.

booklet. Place your answer booklet inside the test booklet. I will now collect your scratch/grid paper. You will use the same booklets for Module 2, so make sure your name is on the front cover of each

KEYSTONE Algebra I

PART III: DIRECTIONS FOR ADMINISTERING MODULE 1

Coordinator and kept in a secure location until it can be destroyed. Collect all scratch/grid paper at this time. Used scratch/grid paper must be returned to the School Assessment

- If you are administering Module 2 later in the same day, say:
- They will be returned to you at that time. You are going to take Module 2 later today, so I will now collect your test booklet and answer booklet.
- If you are administering Module 2 on a different day [you may specify the day], say:

test booklet and answer booklet. They will be returned to you at that time. **You are going to take Module 2 on [a different day** or say the name of the day**], so I will now collect your**

cleared of any information entered during this module. Note: If students used school-provided calculators, also booklets and that each student's name is on his or her test booklet. All calculators used during the exam must be collect the calculators. Collect the booklets in a systematic fashion, making sure that answer booklets have been placed inside the test

completeness or accuracy. Do NOT review answer booklets for stray marks. Assessment Coordinator for secure storage. Note: Do NOT review student responses to test questions for Return all materials (test booklets, answer booklets, and used scratch/grid paper) immediately to the School



ART IV: DIRECTIONS FOR ADMINISTERING MODULE :

ADMINISTER THE ALGEBRA I EXAM—MODULE 2

has the correct booklets. devices prior to distributing any exam materials. Distribute booklets to students and make certain each student Make sure that no student is in possession of a cell phone, camera, or other electronic device. Collect all electronic

Say and demonstrate:

answer booklet. Check to make sure that your name is on the front cover of both the test booklet and the

When all students are ready, say:

Spring 2015 Exam. will now distribute scratch/grid paper to be used with this module of the Algebra I

Distribute scratch/grid paper. When all students are ready, say:

box now. is showing. In the middle of the page is a box labeled "ATTENTION." Read the paragraph inside this your best effort. Open your test booklet to page 2. Fold your test booklet back so that only page Now we are ready to begin Algebra I—Module 2. Carefully follow the directions, and give this exam

Pause for students to read the paragraph. Then say:

Are there any questions about this paragraph?

Answer all questions. When all students are ready, say:

Turn to page 21 in your test booklet. Fold your test booklet back so that only page 21 is showing.

booklets back so that only page 21 is showing. When all students are ready, say: Pause while students find the correct page in their test booklets. Make sure all students have folded their test

Look at the directions on page 21. Read the directions silently as I read them aloud

On the following pages of this test booklet are the Keystone Algebra I Exam questions for Module 2

You may refer to the formula page at any time during the exam. Formulas that you may need to solve questions in this module are found on page 23 of this test booklet.

calculator π or the number 3.14. You may use a calculator on this module. When performing operations with π (pi), you may use either

Are there any questions?

Answer all questions. When all students are ready, say:

Continue to read the directions on page 21 silently as I read them aloud.

There are two types of questions in each module.

Multiple-Choice Questions

These questions will ask you to select an answer from among four choices.

- First read the question and solve the problem on scratch paper. Then choose the correct answer.
- Only one of the answers provided is correct.
- If none of the choices matches your answer, go back and check your work for possible errors.
- Record your answer in the Algebra I answer booklet.

ALGEBRA I KEYSTONE

Are there any questions?

Answer all questions. When all students are ready, say:

Continue to read the directions on page 21 silently as I read them aloud.

Constructed-Response Questions

These questions will require you to write your response

- These questions have more than one part. Be sure to read the directions carefully.
- the tasks in the question. You cannot receive the highest score for a constructed-response question without completing all
- explain your reasoning. However, not all questions will require that you show your work or explain If the question asks you to show your work or explain your reasoning, be sure to show your work or be scored. you may use the space provided for your work or reasoning, but the work or reasoning will not your reasoning. If the question does not require that you show your work or explain your reasoning,
- answer booklet. Some answers may require graphing, plotting, labeling, drawing, or shading. If All responses must be written in the appropriate location within the response box in the Algebra I answer booklet. you use scratch paper to write your draft, be sure to transfer your final response to the Algebra I

Are there any questions?

Answer all questions. When all students are ready, say:

Continue to read the directions on page 21 silently as I read them aloud.

If you finish early, you may check your work in Module 2 only.

- Do not look back at the questions in Module 1 of your exam materials.
- After you have checked your work, close your exam materials

You may refer to this page at any time during this portion of the exam.

Are there any questions?

Answer all questions. When all students are ready, say:

Now turn to pages 22 and 23 of your test booklet.

Pause while students turn the page in their test booklet. When all students are ready, say:

On page 22 of your test booklet is the *General Description of Scoring Guidelines* for use with Algebra I constructed-response questions. This is an example of the scoring guidelines that response question for Algebra I. Are there any questions? Algebra I. You may refer to these scoring guidelines at any time while responding to a constructedprofessional scorers will use to evaluate your responses to constructed-response questions for

Answer all questions. When all students are ready, say:

test. Are there any questions? formulas to solve questions on this exam. You may refer to the formula page at any time during the The same formula sheet can be found on pages 16 and 22 of your answer booklet. You may use these On page 23 of your test booklet is the formula sheet for use with the Algebra I Spring 2015 Exam.

Answer all questions. When all students are ready, say:

STOP sign in both your test booklet and your answer booklet. STOP sign in your answer booklet. Make sure you continue to respond to questions until you see the in your answer booklet. At the end of Module 2, you will see a STOP sign in your test booklet and a arrows and directions that tell you which questions are in your test booklet and which questions are are not yet finished with Module 2 and you are to continue on to the next page. Follow all GO ON booklet. Look at the GO ON arrow on the bottom of each page. The GO ON arrow indicates that you We are now ready to start Module 2. Turn to page 24 in your test booklet and page 17 in your answer

Are there any questions? materials when you finish. You may read or sit quietly until the rest of the class completes Module 2. booklet and place it inside your test booklet so I will know you have finished. I will collect your exam you have changed an answer or made a stray mark in your answer booklet. Then close your answer for each question in your answer booklet. Make sure that you have completely erased wherever Remember to complete questions 1 through 27 in Module 2 and to mark only one correct answer

Answer all questions. When all students are ready, say:

You may begin.

Exam Directions are printed in Appendix D of this manual. They may be repeated to students as needed during an answer or has answered an item incorrectly. You may, however, provide clarification of exam directions. The might suggest the correct answer to a question. Do not communicate to a student that the student should "check" While students are taking the exam, be available as a resource. Do not give any individual or group help that

to try all of the tasks (questions) and to complete the exam. Sometimes a word of encouragement is all that is needed to help a student continue to work. Encourage students

five minutes remain in the exam time for the group not yet finished with this exam module, say: information about Extended Exam Time, see Part II of this document. When you have confirmed that approximately all students have completed all questions or when you determine that additional time is not necessary. For more basis if one or more students are continuing to make reasonable progress on the exam. End the session only when each student is to be provided sufficient time to finish the exam, additional time may be allowed on an individual exam materials when students are finished testing rather than keeping them closed on the students' desks. Since The testing time for this module is estimated at 75 minutes, but the actual administration time may vary. Collect

wherever you have changed an answer or made a stray mark in your answer booklet. You have about five minutes to complete Module 2. Make sure that you have completely erased

Allow time for students to erase wherever necessary. When all students are ready, say:

Close your test booklet and answer booklet.

Place your answer booklet inside the test booklet. I will now collect your scratch/grid paper.



PART IV: DIRECTIONS FOR ADMINISTERING MODULE 2

cleared of any information entered during this module. Note: If students used school-provided calculators, also collect the calculators. Coordinator and kept in a secure location until it can be destroyed. All calculators used during the exam must be Collect all scratch/grid paper at this time. Used scratch/grid paper should be returned to the School Assessment

say:

This concludes the Algebra I Spring 2015 Exam. I will now collect your test booklet and answer booklet.

test booklets. Collect the booklets in a systematic fashion, making sure that answer booklets have been placed inside the

for completeness or accuracy. Do NOT review answer booklets for stray marks. Assessment Coordinator for secure overnight storage. Note: Do NOT review student responses to test questions Return all materials (test booklets, answer booklets, and used scratch/grid paper) immediately to the School

Go on to read Part V: After Exam Administration found on the next page of this manual

AFTER TESTING IS COMPLETE

After testing is complete:

- the test booklet and the answer booklet correspond for each student. Make sure student identification information is complete and correct on all booklets. Make sure the name on
- (See your School Assessment Coordinator for questions or further direction.) applicable portions of the front cover and page 2 of the answer booklet are completed with the circles filled in. If a student answer booklet has a barcode label with a colored stripe [a District/School Label], make sure that
- exam, make sure that applicable portions of page 3 of the answer booklet are completed with the circles filled If a student used any accommodation listed on page 3 of the answer booklet during the administration of the in. (See your School Assessment Coordinator for questions or further direction.)
- Do **not** check documents for content, accuracy, completeness, or stray marks

RETURN MATERIALS

this exam must be returned to the School Assessment Coordinator. Exam materials must be kept secure. All materials, including any unused materials, related to the administration of

returned to the School Assessment Coordinator immediately at the end of the exam session. unused test booklets and answer booklets, this manual, and used scratch/grid paper. All exam materials must be **Return all exam materials** to the School Assessment Coordinator for secure storage. This includes used and

Do **not** affix a barcode label to any unused answer booklets. $barcode\ label\ [District/School\ \underline{or}\ Student\ Precode\ \underline{or}\ Do\ Not\ Score]\ affixed\ to\ the\ front\ cover\ of\ the\ answer\ booklet.$ Reminder: All used answer booklets returned to Data Recognition Corporation for processing must have a

administration. Test Administrators should return the signed and dated Test Administrator/Proctor Test Security Certification to the School Assessment Coordinator upon completion of the last testing session Certification, that person certifies that all security measures have been followed for this Keystone Exam Administrator/Proctor Test Security Certification. When a Test Administrator signs and dates the Test Security Remember: Every Test Administrator involved in the administration of this Keystone Exam must sign and date a Test

Department of Education immediately. If an exam security violation is suspected, contact the School Assessment Coordinator or the Pennsylvania

Recognition Corporation (DRC). The School Assessment Coordinator has all information on returning exam materials to Data

pennsylvania DEPARTMENT OF EDUCATION

ETHICAL STANDARDS OF TEST ADMINISTRATION

Before Test Administration:

DO...

- Communicate to students, parents, and the community what the test does and does not measure, when and how it will be administered, and how the results will be used.
- Maintain a positive attitude about testing.
- Teach to the Pennsylvania Core Standards.
- Review skills, strategies, and concepts previously taught
- V taking skills include responding to both multiple-choice and constructed-response (open-ended) items. Integrate teaching of test-taking skills with regular classroom instruction and assessment. Examples of test-
- V Be sure that students testing online have prior experience with the online practice test that models the testing mode (online) and its tools.
- V Item and Scoring Samplers and General Scoring Guidelines. Use any test preparation documents provided by the Pennsylvania Department of Education including
- Read the Directions for Administration Manual.
- Follow test security and administration guidelines.
- V the Test Administrator. group of students. If local circumstances do not allow that option, assign a Proctor in the classroom with Consider having a teacher, other than the teacher of record, administer the assessment to a particular
- Schedule the assessment.
- > Include all students in the appropriate assessment.
- V of the procedures to follow. This training includes understanding test security and the confidential and Attend the annual training for the administration of the assessments in order to be properly informed proprietary nature of the documents.
- \bigvee to do in the event of a fire alarm, bomb threat, HAZMAT incident, unruly student, etc. Make contingency plans for unexpected disruptions during testing. All school personnel must know what
- \bigvee Remove or disable monitoring software (spyware) from computers, iPads, and Chromebooks to be used
- V test items. Cover or remove from classrooms or hallways all instructional materials that could aid students in answering
- V Make sure the testing environment is comfortable and has appropriate lighting
- V Ensure students are seated at the correct workstation for an online test administration
- Review the Code of Conduct for Test Takers with students.
- V Review the Calculator Policy. Clear the memory and all stored programs before and after the calculators are used for a test
- V Make sure calculators (other than calculators provided within the online testing engine) meet the requirements of the Calculator Policy
- V Know the required accommodations for each student with an IEP or 504 Service Plan and for each English Language Learner being assessed.
- V Review with students the possible local sanctions the district will enforce for student misconduct (e.g.,

DO NOT...

- V Teach students a test-taking technique that would require them to bubble more than one response to a test question and then return and erase all but one response.
- V for valid test administration and is prohibited any of the accommodations guidelines documents. Knowledge or review of test content is not necessary Review student test booklets except for purposes as stated in the *Directions for Administration Manual* and

interpretation of the test. Note: Interpreters may have access to test materials three days prior to test administration to prepare for accurate

- Reveal any part of secure copyrighted tests to students.
- Copy or otherwise reproduce any part of secure tests.
- Review and/or provide answers to test questions to students.
- Possess unauthorized copies of state tests.
- Assist in, direct, aid, counsel, encourage, or fail to report any of the actions prohibited in this section.

During Test Administration:

DO...

- Follow test security and administration guidelines.
- Continually move around the testing site to ensure students are adhering to the instructions given.
- coaching (see DO NOT list on the next page). they are working. Be cautious in redirecting or assisting students that you are not violating test security by bubbling in answers in the correct section of the answer sheet for the section of the test booklet in which During active monitoring ensure that students are working in the correct section and that they are
- V includes those students who need additional time to complete any test session. Make sure students are supervised at all times during testing and all breaks. This supervision requirement
- V Escort all students and carry all secure testing materials to alternate testing sites for extended time, etc.
- Maintain a positive attitude about testing.
- \bigvee Make sure that sections/modules are started and completed in the same day
- V Account for all test booklets and answer booklets and keep them in a secure location.
- V Keep voice inflections neutral if an allowable or required accommodation is to read portions of the test
- > Minimize distractions, including intercom announcements.
- V Place a "Testing—Do Not Disturb" sign on doors where testing is occurring
- V testing site Collect cell phones, smart phones, and other unauthorized electronic devices as students enter the
- V Pennsylvania Department of Education. Report testing irregularities/security breaches to the School Assessment Coordinator, principal, or the

Appendices

DO NOT...



- testing materials for any reason. Leave students unattended with testing materials or permit any student to leave the testing site with
- V allow students to look back in a test booklet once a test section or module has been completed Permit students to look ahead to another section or module of the test before being instructed to do so, or
- V Discuss, disseminate, or otherwise reveal contents of the test to anyone.
- the testing session ends each day. and the materials must be counted and collected by the School Assessment Coordinator immediately after Possess secure test materials at any time other than during the actual administration of the test. Test Administrators should be given the secure materials immediately prior to the administration of the test,
- V second look). This prohibition includes, but is not limited to, a Personal Care Aid (PCA), Therapeutic Support review rough drafts, or give feedback of any kind including indicating to students any items that need a Coach or provide feedback to students (e.g., answer any questions pertaining to the content of the test, Staff (TSS), or any other one-on-one aide who is assigned to a student.
- Define or clarify a word.
- Read aloud any portion of the Literature Assessment.
- V Sections 2, 3, or 4 of the PSSA English Language Arts assessment. Read aloud the passages, multiple-choice questions or answer choices, or short-answer questions in
- V Read aloud any part of a mathematics item that will cue the correct answer or provide a hint for the test
- V up sessions for absences and for students who go to another testing site for extended time. Return a test booklet to any student after it has been turned in to the Test Administrator except for make-
- V student to do so. Alter, influence, or interfere with a test response in any way, fill in any unanswered item, or instruct the
- V Assist in, direct, aid, counsel, encourage, or fail to report any of the actions prohibited in this section.

After Test Administration:

DO...

- Follow test security and administration guidelines.
- Maintain a positive attitude about testing.
- Assessment Coordinator to be destroyed Collect all scratch paper or rough drafts at the end of each test session, and return them to the School
- V Return all secure testing materials to the School Assessment Coordinator immediately after the testing session each day.
- V Account for all test booklets and answer booklets daily, and keep them in a secure location.
- V Transcribe exact student responses, including incorrect responses, when an alternate test format (such as Braille or large print) has been used or when a student's answer booklet has been damaged
- > Clear the memory of calculators after each testing session.
- \mathbf{V} Pack and ship the secure testing materials to the testing contractor.
- V Sign the appropriate Test Security Certification, and return it to the appropriate individual as directed

DO NOT...

- Discuss, disseminate, or otherwise reveal the contents of the test to anyone.
- through the Pennsylvania Department of Education. item or any section of a secure test in any manner inconsistent with the instructions provided by and Keep/save, copy, reproduce, or use any test, test item, specific test content, or examinee responses to any
- Review student responses in the answer booklet.
- > Review test booklets containing the test items.
- V Alter, influence, or interfere with a test response in any way, fill in any unanswered item, or instruct the student to do so.
- Discuss or provide feedback regarding test items.
- Copy or reproduce any portion of the secure test materials or provide answer keys
- Erase or change student answers.
- V inaccurate reports, or unsubstantiated claims. Make false or misleading statements about assessment results, including inappropriate interpretations,
- Erase stray marks or darken bubbles.
- Assist in, direct, aid, counsel, encourage, or fail to report any of the actions prohibited in this section.

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APPENDIX B: CODE OF CONDUCT FOR TEST TAKERS



CODE OF CONDUCT FOR TEST TAKERS

DO..

- Get a good night's sleep
- Eat a good breakfast.
- Listen to, read, and follow all directions given.
- Ask questions if you do not understand the directions.
- to read any open-ended items and writing prompts carefully before responding. Read each question carefully, especially multiple-choice items that ask for the "best answer." Also, be sure
- Be careful when marking your answers so that you do not skip spaces or fill in the wrong sections
- Make sure to completely fill in the bubble for the answer you select and erase completely any answers you
- Keep your eyes on your own test.
- Try to answer each test item.
- submitting your final responses online. Check that you have completed all the test items in the test section before closing your test booklet or
- Report any suspected cheating to your teacher or principal.

DO NOT...

- Bring notes with you to the test.
- applicable, to the test. Bring any electronic devices (e.g., cell phones, smart phones, etc.) other than an approved calculator, if
- Share a calculator with others.
- Use the bubbles in the answer booklet to either eliminate possible incorrect answers or possible correct answers. Mark only the bubble for the one correct answer you have chosen.
- Talk with others about questions on the test during or after the test.
- Take notes about the test to share with others.
- Leave an online test session until the session is complete or until instructed to do so

Spring 2015 Keystone Exam Security Certification

(Test Administrator and Proctor)

District:		
School:		
AUN:		
Maintaining the security and integrit in the administration and handling are essential in order to obtain reliak	Maintaining the security and integrity of all assessment materials, preventing any dishonest or fraudulent behavio in the administration and handling of the assessment, and promoting a fair and equitable testing environmen are essential in order to obtain reliable and valid student scores. In that regard, I certify the following:	y dishonest or fraudulent behavio nd equitable testing environmen I certify the following:
Prior to the administration of the assessme and I understand that the assessment mat the Pennsylvania Department of Education.	Prior to the administration of the assessment, I completed the Pennsylvania State Test Administration Training and I understand that the assessment materials are secure, confidential, and proprietary documents owned by the Pennsylvania Department of Education.	tate Test Administration Training proprietary documents owned by
I have not reviewed, discussed, disse anyone. I have not removed any asse to administer the assessment to a	I have not reviewed, discussed, disseminated, described, or otherwise revealed the contents of the assessment to anyone. I have not removed any assessment materials from the school building unless I was specifically authorized to administer the assessment to a student on homebound instruction. I have not kept, copied, reproduced	the contents of the assessment to unless I was specifically authorized ve not kept, copied, reproduced
released, or used any assessment, any item or any section of the secure by or through the Pennsylvania Department an assessment question or in any wain any manner altered or caused the examinees.	released, or used any assessment, assessment question, specific assessment content, or examinee response to any item or any section of the secure assessment in any manner that is inconsistent with the instructions provided by or through the Pennsylvania Department of Education. I have not provided any examinee with an answer to an assessment question or in any way influenced an examinee's response to any assessment question. I have no in any manner altered or caused the alteration of any examinee response, assessment booklet, or papers used by examinees.	content, or examinee response to content, or examinee response to ent with the instructions provided any examinee with an answer to y assessment question. I have no sment booklet, or papers used by
I understand that any breach in assessment secuprofessional discipline, and/or criminal prosecution.	I understand that any breach in assessment security could result in the invalidation of assessment results professional discipline, and/or criminal prosecution.	validation of assessment results
I understand that false statements h	I understand that false statements herein are made subject to the penalties of 18 Pa.C.S. § 4904.	18 Pa.C.S. § 4904.
Administrator/Proctor Name	Administrator/Proctor Signature	Date of Signature

ALGEBRA I EXAM DIRECTIONS

Below are the exam directions available to students in their test booklets. These directions may be used to help students navigate through the exam.

booklet. You may refer to the formula page at any time during the exam. Formulas that you may need to solve questions in this module are found on page G [or 21] of this test

calculator π or the number 3.14. You may use a calculator on this module. When performing operations with π (pi), you may use either

There are two types of questions in each module.

Multiple-Choice Questions

These questions will ask you to select an answer from among four choices

- First read the question and solve the problem on scratch paper. Then choose the correct
- Only one of the answers provided is correct.
- If none of the choices matches your answer, go back and check your work for possible errors
- Record your answer in the Algebra I answer booklet.

Constructed-Response Questions

These questions will require you to write your response

- These questions have more than one part. Be sure to read the directions carefully.
- all the tasks in the question. You cannot receive the highest score for a constructed-response question without completing
- work or reasoning will not be scored. explain your reasoning, you may use the space provided for your work or reasoning, but the work or explain your reasoning. If the question does not require that you show your work or work or explain your reasoning. However, not all questions will require that you show your If the question asks you to show your work or explain your reasoning, be sure to show your
- shading. If you use scratch paper to write your draft, be sure to transfer your final response to Algebra I answer booklet. Some answers may require graphing, plotting, labeling, drawing, or All responses must be written in the appropriate location within the response box in the the Algebra I answer booklet.

If you finish early, you may check your work in Module 1 [or Module 2] only.

- Do not look ahead at the questions in Module 2 [or back at the questions in Module 1] of your
- After you have checked your work, close your exam materials.

You may refer to this page at any time during this portion of the exam

PENNSYLVANIA CALCULATOR POLICY

including making sure calculators have no programs stored in their memory other than those that are factory upon the School Assessment Coordinator to ensure that all calculator policies are implemented and followed, each test session of the assessment. these programs prior to the assessment. In addition, the memory must be cleared on the calculator following installed. Please note that if a student wants to restore the deleted programs, the student will need to back up where the calculator is permitted, the student must adhere to the guidelines listed below. It is incumbent If a student chooses to use a calculator (other than the online options) on the Keystone Exams or PSSA in sections

The following are **not** permitted for the PSSA or Keystone Exams:

- Noncalculators such as cell phones, smart phones, PDAs, laptops, tablets, pocket organizers, etc.
- or wireless capabilities are disabled Calculators with infrared, Wi-Fi, Bluetooth, or other beaming or wireless capabilities, unless the beaming
- Calculators with QWERTY keyboards, typewriter-like keyboards, or keypads (e.g., Dvorak)
- Calculators with built-in Computer Algebra Systems (CAS)
- Calculators that make noise, have paper tape, need to be plugged in, or talk; these specific calculators can only be used as a required accommodation as stated in the Accommodations Guidelines
- Calculators shared by students during a test session
- Any and all nonfactory programs or information stored in the calculator

exhaustive list of specific calculators, devices, or technologies that cannot be used on the PSSA or Keystone Exams. Please note that as technology changes, this policy may also change. This calculator policy is intended to be a general description of what is not allowed. It is not meant to be an

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SPRING 2015 Keystone Exams Algebra I

DIRECTIONS FOR ADMINISTRATION MANUAL

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PENNSYLVANIA SYSTEM OF SCHOOL ASSESSMENT **Handbook for Assessment Coordinators** 2015

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35	5. PARENT/GUARDIAN NOTIFICATION OF THE ASSESSMENTS
34	4. ADMINISTERING THE SCIENCE PSSA
32	3. ADMINISTERING THE MATHEMATICS PSSA
30	2. ADMINISTERING THE ENGLISH LANGUAGE ARTS PSSA
30	1. SCHEDULING THE ASSESSMENT
30	PART VII - PREPARATION AND MANAGEMENT OF THE ASSESSMENTS
29	5. PAsecureID LIST
29	4. PROCEDURES FOR ASSIGNING BOOKLETS USING SECURITY NUMBERS
28	3. DISTRIBUTION OF ASSESSMENT MATERIALS
25	2. RECEIPT OF MATERIALS
24	1. DISTRICT AND SCHOOL COORDINATOR CHECKLISTS
24	PART VI – RECEIPT AND DISTRIBUTION OF MATERIALS
23	2. TEST SECURITY CERTIFICATIONS
22	1. SECURE STORAGE
22	PART V – TEST SECURITY

NEW THIS YEAR

1. PIMS

and enrollment during the specific testing windows. the previous PSSA attribution rule). Please see page 10 for more information on how to handle student withdrawal of each subject-specific testing window, not necessarily the last day of the entire PSSA testing window (which was windows. Therefore, a student is to be attributed to the school and/or district in which he is enrolled on the last day for each subject). Accordingly, PDE's attribution rules have been established to follow these subject-specific testing of each subject-specific testing window (i.e., the student's district/school of residence and Full Academic Year status The PIMS student data DRC will receive for PSSA reporting will indicate a student's enrollment status on the last day

IMPORTANT REMINDERS

1. LATE RETURN OF TEST MATERIALS

reporting because of an LEA's failure to return answer booklets within the established timeline will be reported to and researched by the Pennsylvania Department of Education. timeline can negatively affect PSSA and accountability reporting. The exclusion of any students in accountability arrive prior to the close of answer booklet processing. Failure to return your PSSA answer booklets in the required in accordance with the established timelines, and absolutely no later than May 8 to ensure that your materials booklets must arrive at DRC by the final processing date to be included in 2015 reporting. UPS pickups must occur All PSSA materials must be returned in accordance with the dates provided in this handbook. All PSSA answer

2. CODE OF CONDUCT

the Code of Conduct for Test Takers that was reviewed with them by their Test Administrators (or teachers). It is advance of the testing day. Prior to starting the assessment, students will be required to indicate that they understand students can acknowledge their understanding of the requirements. important that Test Administrators are prepared to answer any questions about the Code of Conduct so that all should follow before, during, and after each assessment. This code of conduct must be reviewed with all students in The Code of Conduct for Test Takers, found in Appendix D of this manual, provides requirements that students

3. SCORING GUIDELINES

Scoring Guidelines will be presented as separate handouts rather than printed in the back of the test booklets. Guidelines. Schools may make copies if additional handouts are needed. The *Directions for Administration Manuals* provide clear instructions for the distribution and collection of the Scoring include all applicable rubrics—the mathematics reference sheets for grades 4–8 will also include formula sheets. The Scoring Guidelines will be printed and packaged separately by subject and grade (when necessary) and will To give students easier access to the rubrics that are used to score their open-ended responses, the subject-specific

4. TEST SECURITY CERTIFICATIONS

Any individual who handles secure assessment materials must sign the Test Security Certification. All certifications information, see page 23. School Administrator. The Test Security Certifications can be found in Appendix E of this handbook. For additional must be signed after the assessments have been administered and must be retained for three years by the Chief

MATERIALS RECEIPT NOTICE AND MATERIALS ACCOUNTABILITY FORM

Materials Receipt Notice in eDIRECT. For more information, please refer to page 3 of this handbook. All assessment coordinators are required to enter the date secure materials arrive at the district/school using the

please refer to page 37 of this handbook. must indicate the number of booklets being returned to DRC and record any discrepancies. For more information, Each district is responsible for completing the Materials Accountability Form in eDIRECT. The assessment coordinator

PART I – GENERAL ASSESSMENT INFORMATION

1. ADMINISTRATION MANUALS

paper/pencil testing. Manuals. The Directions for Administration Manuals are mode (i.e., online or paper) specific. Manuals will be provided to school entities based on whether students will be participating in the PSSA via either online testing or administration of the assessments must become familiar with this handbook and the Directions for Administration Building Principals, District Assessment Coordinators, and School Assessment Coordinators who coordinate the

Information tab. Select 'General Testing Information' under Administration, select 'User Guide' under Document Additional information associated with utilizing the eDIRECT system for online testing can be found in the eDIRECT The purpose of this handbook is to provide guidelines and procedures for online testing and paper/pencil testing Type, and click Show Documents. Test Setup User Guide which can be found at https://pa.drcedirect.com. Click on Documents under the General

Note: For testing sites that receive their materials directly from Data Recognition Corporation (e.g., ship-to-school districts, IUs, charter schools, non-public and private schools, and other special sites); the School Assessment Coordinator fulfills the responsibilities of the District and School Assessment Coordinator as outlined in this

of School Assessment (PSSA). versions of these documents can be found in eDIRECT and also on the PDE website at www.education.state.pa.us. Click on State Assessment System on the home page next to the large green check mark, then Pennsylvania System Schools may make copies (in full or in part) of this handbook and the Directions for Administration Manuals. PDF

2. TESTING WINDOWS FOR 2015

error of having shipments placed in the book storage area or the supply room without the assessment coordinator's knowledge.) Boxes can be identified by a fluorescent label that reads "Test Materials Enclosed: Open responsible for receipt of the shipments to contact you as soon as the shipments arrive. (Avoid the common Materials for the assessments will be delivered according to the schedule below. Instruct personnel who are Immediately and Inventory."

By March 16	Manuals (all subjects) arrive at districts/schools
By March 30	Administrative and secure materials (all subjects) arrive at districts/schools
April 13 – 17	ENGLISH LANGUAGE ARTS TESTING WINDOW
	English Language Arts materials picked up by April 22
April 20 – 24	MATHEMATICS TESTING WINDOW
	Mathematics materials picked up by April 29
April 27 – May 1	SCIENCE TESTING WINDOW
	Science materials picked up by <u>May 6</u>
May 4 – 8	MAKE-UP TESTING WINDOW FOR ALL SUBJECTS
	ALL make-up materials picked up by May 8

. MATERIALS RECEIPT NOTICE

Boxes should be opened immediately to inventory the contents. If not inventoried centrally, boxes should be materials. District Assessment Coordinators (or School Assessment Coordinators that receive materials directly from distributed intact to schools, allowing enough time for the School Assessment Coordinator to inventory the assigning permissions to School Assessment Coordinators (if appropriate). in eDIRECT. All District Assessment Coordinators have access to the Materials Receipt Notice and are responsible for DRC) are required to enter the date <u>secure</u> materials arrive at the district/school using the Materials Receipt Notice

reported to DRC has received and inventoried its secure testing materials and that any discrepancies from the packing list have been After logging in to eDIRECT, click on Receipt Notice under the Materials tab on the left menu. Select the appropriate Administration and then District and School; click Show. Clicking the complete button certifies that the school listed

the school's Materials Accountability Form will be reported to the Pennsylvania Department of Education. **NOTE:** All secure materials must be returned to DRC. Any materials that are not returned to DRC or accounted for on

4. ADDITIONAL MATERIALS

permissions to School Assessment Coordinators (if appropriate). District Assessment Coordinators have access to the Additional Materials Request and are responsible for assigning Assessment Coordinator. Additional materials must be requested through eDIRECT at https://pa.drcedirect.com. All lf additional materials are needed, the School Assessment Coordinator should request them from the District

ordering additional materials, please enter the exact number needed. DRC will determine final counts and appropriate Administration and then District and School. Click the Add Order button to see the materials available After logging in to eDIRECT, click on Additional Materials under the Materials tab on the left menu. Select the to order. Fill in the amount of materials needed in the Request Quantity box, then click the Submit button. **When**

then District and School. Select 'All' under Status and then click the Find Orders button. All orders for that School ensure delivery prior to the start of testing. If additional Braille material is needed, please call DRC Customer Service will be displayed with the current status. Materials ordered from DRC after 2:00 p.m. EST will be shipped on the click on Additional Materials under the Materials tab on the left menu. Select the appropriate Administration and following business day. All materials must be ordered four days prior to the start of a testing window in order to This system allows for all users with proper permission to see orders that have been placed. To search or view orders,

5. SCHOOL ASSESSMENT COORDINATOR ORIENTATION

Coordinator training the Test Administrators. The following topics must be included in the training: Every District Assessment Coordinator must train School Assessment Coordinators prior to the School Assessment

- 1. The district assessment schedule
- 2. Directions in this handbook; emphasizing
- student participation;
- <u></u> requirements for completing demographic and accommodations information for all participating students;
- ٥ barcode labels (for paper testers, every used answer booklet must have a label applied to the front cover);
- d) required PAsecureID lists; and
- e) Test Security Certifications
- ω Procedures for distribution and collection of assessment materials, including Test Tickets for online testers
- 4. Directions in the eDIRECT Test Setup User Guide, if testing online
- 5. Test Administrator training

- è School Assessment Coordinator responsibility for the security of assessment materials
- 7. Distribution of parent information
- 8. A complete review of test security

School Assessment Coordinators should be given ample time to distribute the *Directions for Administration Manuals* to Test Administrators and to schedule an orientation session within the two weeks prior to the assessment window.

6. TEST ADMINISTRATOR ORIENTATION

are required to perform as outlined in this manual. School Assessment Coordinators must ensure that their Test one training for Test Administrators and is a key component of the training that School Assessment Coordinators online training module at www.pssatraining.com. This interactive course is designed Any person who functions as a Test Administrator must complete the PSSA and Keystone Exams Test Administration Administrators register and complete this training annually prior to administering the PSSA or Keystone Exams. as an individual, one-to-

Administrators or Proctors. In this training session, the following topics must be included: administration of the assessments as part of their professional experience; however, they may not be either Test employed by the school district may act as Test Administrators. Student teachers may be present during the session for Test Administrators and Proctors. Qualified teachers, counselors, administrators, and paraprofessionals At least one week prior to the scheduled assessment dates, School Assessment Coordinators must conduct a training

- **Assessment Schedule**—Be certain that Test Administrators and Proctors know the assessment schedule
- Ы Administration Preparation—Test Administrators and Proctors must receive and study the Directions for Administration Manuals and the Ethical Standards of Test Administration (found in Appendix B) prior to training.
- Ψ on page 7 of this handbook). accommodations may be provided for these students (see "Participation Guidelines for All Assessments" starting **Students with Special Needs-**-Explain which students are to be included in the assessment and what special
- 4 conditions (e.g., a comfortable, quiet room) and a positive approach to the assessment. Assessment Conditions—Remind Test Administrators and Proctors the importance 앜 good assessment
- Ģ when responding to the assessment. Also, all demographic data must be coded using a No. 2 pencil. Special Instructions—Remind Test Administrators and Proctors that all paper testers must use a No. 2 pencil
- Ġ districts and schools should distribute to parents/guardians the letter found in Appendix A before testing students enter the testing site. To ensure students (and parents/guardians) are aware of this policy, school -All cell phones, smart phones, and other prohibited electronic devices are to be collected as

The consequences for using and/or having a cell phone or other electronic device during the test administration

- a Do Not Score Label will be placed on the student's answer booklet and the student must retake the assessment during the same administration testing window in order to receive a score;
- phone or other electronic device will be viewed to ensure that no information or material regarding the the phone or electronic device will be confiscated and in the presence of the parent or guardian, the cell assessment is present;
- the student will be disciplined and that discipline will vary depending on whether test material has been compromised; and
- the parents and students may be responsible for the cost of replacing compromised items

compromised District personnel, school personnel, and students must understand that the integrity of the test cannot be

- 7. Use of Calculators—Except for the Non-Calculator section of the PSSA Mathematics assessment, calculators Appendix C) is followed: may be used for any part of the following assessments as long as the Pennsylvania Calculator Policy (found in
- Remaining sections of the PSSA Mathematics assessment
- PSSA Science assessment
- œ Proctors are aware that the use of these items is not permitted on any section of the PSSA. Use of Dictionaries, Thesauruses, Spell- or Grammar-Checkers—Make sure all Test Administrators and

mathematics and science assessments only. language to English (or English to a native language) without definitions or pictures are allowed on the **Note:** As an accommodation for English Language Learners, word-to-word dictionaries that translate a native

- 9 eDIRECT and the PDE website at www.education.state.pa.us. Click on State Assessment System on the home and formula sheets are printed as separate documents for easy student reference. They can also be found in the mathematics formula sheets may be displayed in the testing room. The subject-specific scoring guidelines **Classroom Displays**—Explain that only the *General Description of Scoring Guidelines* for all content areas and page next to the large green check mark, then Pennsylvania System of School Assessment (PSSA)
- 10. Barcode Labels—Emphasize the important aspects of barcode label use for paper testers (see "Labeling Answer Booklets" starting on page 12 of this handbook).
- 11. Make-up Sessionshandbook for complete instructions). ·Clarify the school entity's make-up procedures (see "Make-up Sessions" on page 36 of this
- 12. the answer booklets by the students. Collect all scratch paper at the end of each test session and return to the use during the assessments. Blank graph and grid paper are allowed. All scratch paper must be removed from School Assessment Coordinator to be destroyed. -Remind Test Administrators and Proctors that scratch paper must be provided to students for
- Response Space—Emphasize that students are limited to the response space provided in the answer booklets or in the online test engine (INSIGHT). Additional pages/booklets will not be scored
- 14. Code of Conduct the code of conduct so that all students can acknowledge their understanding of the requirements. Administrators (or teachers). It is important that Test Administrators are prepared to answer any questions about to indicate that they understand the Code of Conduct for Test Takers that was reviewed with them by their Test manual) with all students in advance of the testing day. Prior to starting the assessment, students will be required –Remind Test Administrators to review these requirements (found in Appendix D of this
- 15. Security—Emphasize that all test materials, including test booklets, answer booklets, test tickets, and content booklets must be kept secure. in the online test must be kept secure at all times prior to, during, and after the assessment, and that completed

teacher acts as the Test Administrator of his/her own class. be used as Test Administrators and/or Proctors, or that a Proctor be in the testing room with the teacher if the be Test Administrators and/or Proctors of their own students. As such, it is recommended that other teachers To prevent any suspicion of testing anomalies, PDE strongly encourages school entities not to allow teachers to

Confidentiality Agreement found in the *Accommodations Guidelines* and the General Test Security Certification found in Appendix E. Before signing the certification, cross out the word "reviewed" in the third paragraph. interpret allowable Keystone and PSSA test material for a student(s). The School Assessment Coordinator must In collaboration with the Bureau of Special Education, the following guidance is provided: A separate Test ensure that educational sign language interpreter receives assessment training. The interpreter must sign the Administrator is required for test settings where an educational sign language interpreter has been assigned to

7. **INFORMATION FOR ONLINE TESTERS**

Documents under the General Information tab. Select the appropriate Administration and select 'Manuals' under test tickets. The user guide and the Online Directions for Administration Manuals are available in eDIRECT. Click on specific information related to using the eDIRECT system to set up students for online testing and managing student The School and District Assessment Coordinators involved with online testing should refer to the *eDIRECT Test Setup User Guide* and the grade/subject-specific *Online Directions for Administration Manuals*. These documents contain Document Type

Online Tools Training. Other information related to online testing is also available in eDIRECT, including online testing tutorials and the

PA Online Tutorials

The PA Online Tutorials have been created for each assessment and are designed to be used by students at all grade levels. The tutorials use pictures, motion, and sound to present visual and verbal descriptions of the properties and features of the PA Online Assessment System. To view the tutorials:

Go to eDIRECT: https://pa.drcedirect.com/

Under Test Setup on the left navigation pane, click on General Information Go to the Test Tutorials tab.

Click on the play button to view the tutorials.

V **PA Online Tools Training (OTT)**

The PA Online Tools Training (OTT) is designed to provide an introductory experience using the online assessment software in preparation for taking the PSSAs. This allows students to become familiar with testing on a computer and allows them to experiment with the features available during an actual test. Two versions of the OTT are available – a public version and a secure version. The secure version is automatically downloaded when the District Technology Coordinator downloads the testing software. To view the public version:

Go to eDIRECT: https://pa.drcedirect.com/.

From the bottom of the home page, select Online Tools Training Software Download – Windows or Mac

Follow the onscreen instructions to start the OTT.

The username and password is contained in the log in screen.

Note: If a student needs to practice with the audio or color accommodations, add "audio" or "color" after the username (i.e., math3audio)

V **Technology User Guide**

assistance for downloading the testing software. The *Technology User Guide* is available for the District Technology Coordinator. This user guide provides detailed

Go to eDIRECT: https://pa.drcedirect.com/.

Under General Information on the left navigation pane, click on Documents

Select 'General Testing Information' under Administration and 'Technology' under Document Type

setting up online testing in the school/district. District Assessment Coordinators should consult with their District Technology Coordinator for further details about

PART II - PARTICIPATION GUIDELINES FOR ALL ASSESSMENTS

1. STUDENT PARTICIPATION IN THE ASSESSMENT

With only a few very specific exceptions, the following students must participate

- V All public school students enrolled in grades 3–8 are required to participate in the 2015 English Language Arts PSSA or the Pennsylvania Alternate System of Assessment (PASA).
- the Pennsylvania Alternate System of Assessment (PASA). All public school students enrolled in grades 3–8 are required to participate in the 2015 Mathematics PSSA or
- All public school students enrolled in grades 4 and 8 are required to participate in the 2015 Science PSSA or the Pennsylvania Alternate System of Assessment (PASA).
- Participation by students in non-public schools is voluntary.

2. PARTICIPATION WITH ACCOMMODATIONS

'PDE Procedures and Guidelines' under Document Type. This document can also be found on the PDE website at www.education.state.pa.us. Click on State Assessment System on the home page next to the large green check mark, then Pennsylvania System of School Assessment (PSSA). under the General Information tab on the left menu. Select 'General Testing Information' under Administration and instruction. For more information, refer to the Accommodations Guidelines found in eDIRECT. Click on Documents the same allowable accommodations in the state assessment environment as provided for in their 22 PA Code must participate in the 2015 Pennsylvania System of School Assessments. These students should be provided with Chapter 14 Individualized Education Program (IEP) or their 22 PA Code Chapter 15 Service Agreement regarding their All students with disabilities, except those participating in the Pennsylvania Alternate System of Assessment (PASA),

- Braille and large-print versions of the assessment will be available for students with visual impairments. These versions are available in paper versions only.
- a No. 2 pencil only). Additional Form 1 booklets for transcription will be provided with the Braille and large-Students who use the Braille or large-print versions must have all of their answers (multiple-choice and openpack is not received, please use another Form 1 answer booklet from the school's additional materials. print versions for this purpose. These booklets are identified as packs of 1. If a Form 1 scannable-booklet ended) transcribed by the School Assessment Coordinator or designee into a Form 1 answer booklet (using
- are allowed for spelling, punctuation, or grammar. The School Assessment Coordinator or designee should not make corrections of student work. No corrections
- Student responses in Braille or large-print booklets that are not transcribed into a Form 1 answer booklet will not be scored. The answer booklet that has been used for transcription purposes must have a Student Precode Label or a District/School Label properly affixed.
- All Braille and large-print booklets are secure materials and must be returned to DRC
- V information, please refer to the eDIRECT Test Setup User Guide. be selected for the student prior to the student being added to a test session. The test ticket must display accommodation. The audio versions are available online only. Within eDIRECT, this accommodation must Audio versions of the Mathematics and Science assessments are available for students with IEPs needing this this accommodation to ensure that the student is setup properly within the online testing tool. For additional
- V to the eDIRECT Test Setup User Guide. ensure that the student is setup properly within the online testing tool. For additional information, please refer student <u>prior</u> to the student being added to a test session. The test ticket must display this accommodation to who need color overlay accommodations. Within eDIRECT, this accommodation must be selected for the Color Chooser and Color Contraster accommodations are available with the online assessments for students

See the "Accommodations" section on page 18 of this handbook for additional information

PARTICIPATION IN THE PENNSYLVANIA ALTERNATE SYSTEM OF ASSESSMENT

http://www.pasadigital.com. All students must participate in either the PSSA or the Pennsylvania Alternate System of Assessment (PASA) for mathematics, reading, and science. For more information on PASA, please go to the following website:

If a student has an IEP and is eligible to participate in the PASA, school personnel do not need to return PSSA assessments to DRC for the student. Students responding to the PASA should be provided with an alternative learning environment during the PSSA sessions.

one subject and an alternate assessment in another subject. The Pennsylvania Department of Education is required PASA for mathematics, reading, and science. A student who meets these criteria cannot be eligible for the PSSA in Please review the following eligibility criteria for participation in an alternate assessment. Students who meet all six of the criteria may be excused from the Pennsylvania System of School Assessments and must be administered the statewide assessments. by the Individuals with Disabilities Education Act (IDEA) to monitor the inclusion of students with disabilities in the

Criteria for Participation in the Pennsylvania Alternate System of Assessment

(Whether or not a student meets the following criteria must be determined by the student's IEP team.)

Criterion 1: The student is in grade 3, 4, 5, 6, 7, or 8; and

Criterion 2: The student has a very severe cognitive disability; and

Criterion 3: The student requires very intensive instruction to learn; and

Criterion 4: participate meaningfully and productively in the everyday life activities of integrated school, The student requires very extensive adaptations and supports in order to perform and/or

home, community, and work environments; and

Criterion 5: The student requires very substantial modification of the general education curriculum; and

Criterion 6: The student's participation in the general education curriculum differs very substantially in form and/or substance from that of most other students (i.e., requires modified objectives,

materials, and/or activities)

for purposes of accountability. come from PASA results for accountability purposes. PASA results in excess of 1% will be counted as Not Proficient Important Reminder: No more than 1% of a district's percentage of Advanced/Proficient scores in a grade span may

4. PROCEDURES FOR NON-ASSESSED STUDENTS

booklet and darken the bubble next to the reason the student did not participate. For online testers, non-assessed information must be provided in eDIRECT (Test Setup > Students). Refer to the eDIRECT Test Setup User Guide for more For a non-assessed student taking a paper assessment, use the "Non-Assessed Students" grid on page 1 of the answer

attempts all sections of a subject, the student's responses will be scored The non-assessed information on the answer booklet or in eDIRECT does not override student responses. If a student

Students not participating in the assessment must be coded under one or more of the following categories

a recent car accident. In these situations, the student has remained enrolled at the school, yet the circumstances significant medical emergency. For example, this might include a situation in which a student is recovering from take or finish taking the assessment during the entire testing window, including make-up dates, due to a recent Student had a recent medical emergency: This applies only to rare circumstances in which a student cannot might prohibit him or her from participating in the assessment during the testing window.

within 2 weeks of the start of the testing window that states the student may not participate in standardized testing, school personnel must select "Student had a recent medical emergency." In all other instances involving Concussion: If a student has been diagnosed with a concussive injury and there is medical documentation concussive injuries and student nonparticipation, the student should be coded as "Other."

the opportunity to participate in the PSSAs at the location they are receiving their educational services enrollment, hospital, treatment facility, homebound, etc.) during the testing window, the student must be given rates. This will ensure that schools whose accountability status might be affected by such situations will not be The "recent medical emergency" option allows schools to omit such students when calculating their participation improperly identified for improvement. Keep in mind that if a student is receiving education services (school

V must select "Student had an extended absence for the entire testing window." extended period that continues beyond the last day of the PDE-established testing window, school personnel Student had an extended absence for the entire testing window: If a student is absent from school for an

due to an extended absence will have a negative effect on the school's participation rate and can potentially are able to participate in the assessments during the school's make-up sessions. Students who are non-assessed Schools must make every effort to ensure that all students who experience absences during the testing window have a negative impact on the school's accountability status.

- V their religious beliefs. This is the only basis for a parent/guardian to excuse his or her child from the statewide state assessment if, upon inspection of the testing materials, they find the assessment to be in conflict with Board of Education regulations provides for the right of any parent/guardian to excuse their child from the Student had a parental request for exclusion from the assessment: Section 4.4 of Chapter 4 of the State
- may remove the prompt seal from one copy of an ELA booklet to facilitate a review of the ELA assessment. Proper security and confidentiality of the assessment must be maintained at all times. District personne Districts must provide a convenient time for the review. This may include an evening review time, if requested The assessment must be reviewed on district property and district personnel must be present at all times. Two weeks prior to each testing window, assessments will be available for review by parents and guardians.
- review. These booklets must be returned to DRC following the return instructions outlined in this handbook. Sites testing only online should contact DRC to order a set of paper assessments for the purposes of parental
- Confidentiality Agreement can be found in Appendix F of this handbook. down, or in any other manner record any portion of the assessments, including directions. The Parent maintained. (Do not send this statement to PDE or DRC.) Parents and guardians may not photocopy, write Parents and guardians must sign the **Parent Confidentiality Agreement**. A copy of this should be locally
- states the objection to the Superintendent or Chief Executive Officer. wish their student(s) to be excused from the test, the parents/guardians must provide a written request that If after reviewing the test parents/guardians find the test to be in conflict with their religious beliefs and
- a parental request for exclusion from the assessment." provide an alternative learning environment for the student during the assessment and select If the student is excused from the assessment due to parental or guardian request, school personnel must "Student had
- negatively affect the school's participation rate and can potentially have a negative impact on the school's Please be aware that students who do not participate in the assessment due to parental request will accountability status.
- V at the time of testing. Refusal represents a defiant act on the student's part despite school personnel's every school's accountability status effort to obtain compliance. If you have exhausted all options and believe you have a case that fits into this category is provided for the rare exception. The most notable rare exception is student refusal to participate **Other:** Although there is no other apparent reason for student non-participation in the assessment, this reasons will negatively affect the school's participation rate and can potentially have a negative impact on the category, select "Other." Indicating that a student did not participate in the assessments due to "other"

5. OTHER ASSESSMENT INFORMATION

student is testing online, this information must be provided in eDIRECT (Test Setup > Students). This grid can be found on page 2 of the answer booklet for any student taking a paper/pencil assessment. If the

- V care placement. and/or alcohol treatment facility) are required to participate in the assessments. This does not apply to foster agency placed into a non-public setting (e.g., PRRI or other juvenile delinquency institution, mental health, drug Student is court/agency placed (not foster care): Court/agency-placed students are required to participate in the assessments regardless of whether the student has an IEP or not. All students who have been court or
- Codes" in eDIRECT. Do not select "Other" in the "Non-Assessed Students" grid for these students. (not foster care)" in the "Other Assessment Information" section of the answer booklet or under "Testing School personnel must identify a court/agency-placed student by selecting "Student is court/agency placed
- collected from PIMS Court/Agency-placed information is only captured on the answer booklets or in eDIRECT and is not
- Students attending alternative education programs, IU programs, or Approved Private Schools are placed court/agency placed. by the school or district, not by a court or agency; therefore, these students should not be identified as
- \bigvee up the incomplete section(s), select the appropriate information in the "Other Assessment Information" section. Student was absent without make-up: If a student is absent for any sections of a subject and is unable to make
- in all sections of the assessment. test being scored and reported under the assumption that the student simply did not attempt to participate It is important to indicate if a student was absent without make-up, as not doing so will result in the student's
- potentially have a negative impact on the school's accountability status. Students who are absent without make-up will negatively affect the school's participation rate and can

9 STUDENT WITHDRAWAL/ENROLLMENT DURING THE TESTING WINDOW

changes that occur within the entire PSSA testing window, please follow the guidelines outlined below. of residence will not change between the assessments. However, to account for student transfers and enrollment they are enrolled on the last day of each testing window. For the vast majority of students, their districts/schools she was enrolled on the last day of each subject-specific window, including the student's appropriate Full Academic window). The purpose is to ensure that each student can be reported at the district/school of residence in which he/ to student data being pulled from PIMS on the last day of each subject's testing window (excluding the make-up Year status for each subject. Accordingly, all students are to be attributed to the school and/or district in which PDE has established separate testing windows for English Language Arts, Mathematics, and Science that correspond

DRC for further instructions if a student withdrew during a testing window but did not transfer to a new school prior she transferred if the student's new enrollment occurred before that subject's testing window closed. Please contact no further action is needed. The student's record should then be attributed to the district and school to which he/ return the used answer booklet to DRC to be scored. If the student tested online and the results have been submitted If a student completed an entire assessment but withdrew prior to the end of a subject-specific testing window, to the end of that testing window.

- 2015, the student's record must be attributed to the district and school to which he/she transferred If a student completed the English Language Arts assessment in one district, but withdraws prior to April 17,
- she transferred. The ELA record will remain at the site in which he/she was enrolled on April 17 April 24, 2015, the student's Mathematics record must be attributed to the district and school to which he/ If a student completed the Mathematics assessment in one district, but withdraws between April 20 and
- at the site in which he/she was enrolled on April 24. The ELA record will remain at the site in which he/she was enrolled on April 17. The Math record will remain 2015, the student's Science record must be attributed to the district and school to which he/she transferred If a student completed the Science assessment in one district, but withdraws between April 27 and May 1,

have already passed (regardless of the make-up window). window is not to be administered that assessment because the PDE-established testing window for the subject will responsibility to test the student if he/she has not already completed the assessment. The new school also has have completed the assessment in its entirety. Any student who enrolls after the close of a subject-specific testing the responsibility to complete the necessary research to avoid the unfair burden of re-testing a student who may If a school receives a new student prior to the close of the subject-specific testing window, the new school has the

have been properly attributed. in June of 2015. It is the responsibility of both the sending site and the receiving site to verify that student records Districts and schools will have an opportunity to perform attributions during the Online Attribution System window

students were enrolled in the new school on the last day of the subject-specific testing windows. Note: The student's record must properly identify that the student's enrollment in the new school started after October 1, 2014. calculation. Schools should never attribute the records of transfer students back to their previous districts if the the Full Academic Year requirement for the school and will not count in the school's accountability performance through attribution or by administering the assessment) should be aware that the new student does not meet In all cases of enrollment during the testing window, the school that receives the transferred student's score (whether

student's assessment. to DRC. If the student began an online assessment and withdraws, contract DRC for assistance on removing the Commonwealth of Pennsylvania, place a Do Not Score Label on the student's answer booklet before returning it lf a student did not complete an entire assessment before withdrawing, or if a student transferred out of the

7. HOME EDUCATION STUDENTS

If the supervisor of a home education program requests that a student take the PSSA, the school district must allow the student to take the assessment at the school building the home education (home-schooled) student would normally attend or at another central location agreed to by the school district and the supervisor of the home education program.

or the PASA should be aware that certain procedures and timelines must be adhered to before any student is eligible Supervisors of home education programs who plan to request that a student take the PSSA with accommodations with accommodations or the administration of the PASA. could take several months for the determination to be made that a student is eligible for administration of the PSSA to do so, regardless of whether the student is educated at the public school or is home educated. According to law, it

Information about home education in Pennsylvania, including the Pennsylvania law on home education and serving Pennsylvania families, is available on PDE's website at www.education.state.pa.us (keyword search "home related statutes, regulations, frequently asked questions (and answers), and a list of home education organizations

assessed at parental request" must be bubbled on the student's answer booklet (Item 5-option 6 on page 2 of the answer booklet) or selected in eDIRECT (Test Setup > Students). This information is not collected from PIMS. order for the booklet to be scored. If a student is a full-time home education student, "student is home-schooled and Note: For students taking a paper assessment, a district/school label must be affixed to the used answer booklet in

8. TESTING OF SUSPENDED AND EXPELLED STUDENTS

accountability participation calculation). be returned and coded as non-assessed due to extended absence (which will negatively impact the school's be administered the assessments. The location of the testing (at a school within the district or via homebound instruction) is a district decision. If the district chooses not to test the suspended student, a paper booklet must Students who have been suspended from daily classroom attendance, but remain on the school's enrollment, should

do not need to be administered the assessments. However, if the student remains on the district's enrollment after that the student is tested the expulsion (e.g., the student is placed in an alternate education facility), it is the district's responsibility to ensure Students who have been expelled from school and who have been completely removed from the district's enrollments

PART III – LABELING ANSWER BOOKLETS

OVERVIEW OF BARCODE LABELS

Student Precode Label or a District/School Label or an online test returned to DRC the exception of students participating in the PASA, all enrolled students must have an answer booklet with a answer booklets. The labels are intended to increase the accuracy of information collected from the booklets. With Student Precode Labels, District/School Labels, and Do Not Score Labels will be provided for use on all 2015 PSSA

The four types of barcodes are: DRC's booklet receiving system is driven by barcodes. Barcodes help DRC identify and sort documents for processing

- that the document has not been used and should not be processed -DRC has preprinted a "blank" barcode on the cover of every answer booklet. A "blank" barcode indicates
- \bigvee STUDENT PRECODE—DRC uses data received from the Pennsylvania Information Management System (PIMS) hand bubble the student's name, birth date, PAsecureID, and demographic items 1–7 on page 2 of the answer to produce Student Precode Labels. The labels contain barcodes that indicate the answer booklet should be booklet. If you receive a label for a student who is no longer enrolled or is testing online, that label should processed and scored for the student whose name is printed on the label. These labels eliminate the need to
- \mathbf{V} and scored for the student whose information is bubbled on the booklet. contain barcodes with district/school-specific information that indicates the document should be processed **DISTRICT/SCHOOL**—If a student does not have a Student Precode Label, school personnel must use a District/ School Label and hand bubble all demographic information on pages 1 and 2 of the answer booklet. The labels
- \mathbf{V} **DO NOT SCORE**—These labels contain barcodes that indicate the answer booklets should NOT be processed Answer booklets that have a Do Not Score Label will be handled as if they are blank.

General Instructions for Using Barcode Labels

- District/School Labels and Do Not Score Labels are not grade or subject specific and can be used on any PSSA answer booklet.
- Before affixing any label to an answer booklet, check the label to ensure that the information is correct.
- Schools should destroy Student Precode Labels or District/School Labels that contain inaccurate information.
- School personnel must affix the appropriate label to each answer booklet that will be used by a student.
- Place the label in the box located in the lower left corner on the cover of each student's answer booklet.
- the label must be covered with another label of the appropriate type. Do not remove any label that has been affixed to an answer booklet; this will damage the booklet. Instead
- Do not write on the labels. Do not correct information on a label.
- Materials Request in eDIRECT. **Do not use labels from another school or a previous exam.** If you need more labels, submit an Additional

2. STUDENT PRECODE LABEL INSTRUCTIONS

information printed on the label is correct. not created through test sessions in eDIRECT system. It is important that school personnel make sure the readable and district/school information in PIMS. Student Precode Labels were created directly from a PIMS report and are Most testing sites will receive Student Precode Labels that are linked to individual student demographic information

- school). Each set of Student Precode Labels will be separated by a slip-sheet that identifies the assessment for Testing sites will receive up to three sets of Student Precode Labels (depending on what grades are tested at the which the labels should be used.
- The first set will include students in grades 3–8 and are intended for use on students' PSSA ELA booklets.
- The second set will include students in grades 3–8 and are intended for use on students' PSSA mathematics
- The third set will include students in grades 4 and 8 and are intended for use on students' PSSA science
- V If a student's name, PAsecureID, or birth date is incorrect, the label should not be used. Use a District/Schoo Label in its place and bubble the student's name, birth date, and PAsecureID exactly as it appears in PIMS
- Student name, PAsecureID, and birth date are matching criteria between the precode snapshot and the reporting snapshot. If a student record is uploaded to the precode snapshot with a different name than the retain whatever demographic information was associated with his/her PAsecureID in the precode snapshot. reporting snapshot (i.e., printed on the Student Precode Label), DRC cannot update any of the student's identification or demographic information for final PSSA and accountability reporting. The student will
- V for more instructions regarding the accommodations on page 3 of the answer booklet. embedded in the barcode on the label; therefore, these items should not bubbled. Items 8–11 on page 3 of the If a student is using a Student Precode Label, the information needed for pages 1 and 2 of the answer booklet is answer booklets need to be completed by school personnel for all assessed students, if applicable. See page 18
- V It is essential for assessment coordinators to verify that the student demographic information in PIMS is correct.
- V embedded in the Student Precode Label. **the answer booklet.** Any student information changes or demographic changes made by writing on a Student Precode Label or by bubbling page 1 or page 2 of the answer booklet WILL NOT change the PIMS information All embedded Student Precode Label information will supersede any bubbling on page 1 or page 2 of
- V pages 1 and 2 of the answer booklet. If a Student Precode Label is destroyed, school personnel must use a District/School Label in its place and bubble
- V System (June 2015). label should be used and school personnel must enter the attribution information in DRC's online Attribution If a student's score should be attributed to a site other than what appears on the Student Precode Label, the

3. DISTRICT/SCHOOL LABEL INSTRUCTIONS

personnel must bubble pages 1 and 2 of the answer booklets and all applicable items on page 3. All sites will receive District/School Labels that contain district/school-specific information only. District/School Labels must be used when Student Precode Labels are not available. When using District/School Labels, school

- District/School Labels have a stripe across the top of the label
- answer booklet should also be completed in the event that the student-identifying information provided on are bubbled exactly as it appears in PIMS. All other applicable demographic information on page 2 of the When using District/School Labels, it is <u>imperative</u> that the student's name, birth date, and PAsecureID the booklet does not match to a PIMS record
- If a student is using a District/School Label and needs to have his or her score attributed to a site other than online Attribution System (June 2015). what appears on the District/School Label, school personnel must enter the attribution information in DRC's
- in eDIRECT. Do not use labels from another school. If you need more labels, submit an Additional Materials Request

4. DO NOT SCORE LABEL INSTRUCTIONS

District/School Label that was originally affixed to the answer booklet. booklets that should not be scored. Always place the Do Not Score Label <u>directly over</u> any Student Precode Label or Do Not Score Labels are supplied for use on answer booklets that are defective and cannot be scored or answer

Use the Do Not Score Labels when the following has occurred:

- soiled, or is found to be defective (e.g., missing pages) the student's responses must be transcribed into a new booklet of the **same form designation** and a Do Not Score Label affixed to the defective booklet. If a information is recorded on the Materials Accountability Form found in eDIRECT. number found on the back of the soiled booklet, and securely destroy the soiled booklet. Make sure this student becomes ill on an answer booklet, transcribe the responses into a new booklet, record the security A used answer booklet is torn, soiled, or defective. When a student has used a booklet and it becomes torn,
- Score Label (the student's responses must be transcribed from one booklet into the other) A student uses two booklets. Submit one booklet for scoring and return the other booklet with a Do Not
- marked or any student responses). Affix a Do Not Score Label over the incorrect label. A Student Precode Label (for a student who withdrew prior to the testing window) or District/School Label inadvertently affixed to a blank/unused booklet (a blank/unused booklet does not have any bubbles
- to a new school during the PDE-established testing window. label. Please refer to page 10 for information regarding students who complete the assessment and transfer window **and** the student **did not** complete the assessment. Affix a Do Not Score Label over the incorrect A student has been completely removed from the school's enrollment on or before the end of the testing

Do not use Do Not Score Labels for the following types of booklets:

- Do Not Score Label does not need to be affixed to these "BLANK" barcodes. the cover of the answer booklet to indicate that the booklet is blank/unused. For **unused** answer booklets, a Blank/unused booklets-—there is a **preprinted** "BLANK" barcode in the box located in the lower left corner on
- front cover. answer booklet. These booklets must have a Student Precode Label or District/School Label affixed to the Booklets for students who are designated as non-assessed and have been coded as such on page 1 of the

PART IV - COMPLETING STUDENT INFORMATION

Federal and state accountability measures require the collection of specific student data at the time of testing.

1. PAPER/PENCIL TESTING

Name

answer booklet. Students taking a paper assessment using a District/School Label, must complete the Name grid on page 1 of the

Birth Date and PAsecureID Grids

The **Birth Date** grid on page 2 of the answer booklet must be completed for all students using a District/School Label by darkening the appropriate month of the student's birth date, followed by writing the two-digit day and year in the boxes provided and darkening the corresponding bubbles below.

in the boxes provided and darkening the corresponding bubbles. completed for all students using District/School Labels by writing the students' state-assigned, ten-digit PAsecurelDs All public school students have a PAsecureID. The PAsecureID grid on page 2 of the answer booklet must be

PAsecureIDs can be e-mailed to RA-PAsecureIDHelp@state.pa.us. If the district does not have a PAsecureID for a student, please follow the instructions below. Questions regarding

- If a student is home-schooled, the grid should be left blank.
- to look up the student's PAsecureID. If a student transferred from another district within the state, the new district can access the PAsecureID website
- If a student is new to the state or previously attended a private school, the district can access the PAsecureID website and enter the student's information to have a PAsecureID assigned.

Demographics

personnel on the answer booklet after testing is completed. To ensure student privacy and data accuracy for the assessments, this information must be reported by school

completed by hand. Students with District/School Labels must have pages 1 and 2 completed by school personnel prior to administering the assessment. 1 and 2 of the answer booklet is embedded in the barcode on the label; therefore, these items should not be lf a student testing with a paper assessment is using a Student Precode Label, the information needed for pages

Completing Items 1–7 on Page 2 of the Answer Booklet

tem 1 Gender

Indicate whether the student is Male or Female

Item 2 Race/Ethnicity (indicate only one)

student should be counted in more than one racial category, choose "Two or more races." Indicate the ethnicity with which the student most closely identifies. You must choose only one. If م

ltem ω Student's current enrollment status initially started after October 1, 2014 (mark all that apply, if any):

in the school of residence – Student's current enrollment in this school started after October 1, 2014.

enrolled in the school from at least October 1, 2014, to the last day of the PDE-established testing window. To be considered enrolled in the school for a full academic year, a student must have been continuously accountability performance calculation. Scores for students not enrolled in the school for the full academic year will not be included in the school's

Note: Alternative education sites only select this item if the student entered his/her school of residence after October 1, 2014.

in the district of residence – Student's current enrollment in this district started after October 1, 2014.

Scores for students not enrolled in the district for the full academic year will not be included in the district's accountability performance calculation. The same rules previously described for the school of residence apply to the district of residence bubble.

as a Pennsylvania resident – Student became a Pennsylvania resident after October 1, 2014

resident prior to that date. School personnel are urged to check students' records carefully. School personnel should complete this item if the student moved to Pennsylvania after October 1, 2014. It but enrolled in the previous Pennsylvania school after October 1, 2014, and was not a Pennsylvania is possible that a student may have moved into your school or district from another Pennsylvania school,

Item 4 Student's current enrollment status initially started after October 1, 2013, but on or before October 1, 2014 (mark all that apply, if any):

- in the school of residence Student's current enrollment in this school started after October 1, 2013, but on or before October 1, 2014.
- 0 in the district of residence - Student's current enrollment in this district started after October 1, 2013, but on or before October 1, 2014.

moves from an elementary to a middle school due to class advancement should not have this field marked that occur in the course of regular advancement from one grade to the next). Therefore, a student who This item does not apply to normal progression from school to school within a district (i.e., school changes

ltem G Mark all of the following that apply, if any:

demographic item pertains to a student's IEP status at the time of testing. Student has an IEP (not Gifted) - Student has an IEP and has a disability but is not gifted. This

Therefore, if a gifted student has an IEP, but does NOT have a disability, DO NOT select this item in response to this item are intended to identify ONLY those students with IEPs who have disabilities. It is recognized that gifted students, while not having a diagnosed disability, have an IEP. The data collected

Student has exited an IEP program within the past 2 years – Student exited an IEP program between April 17, 2013–April 17, 2015. (The end date is based on the last day of the ELA testing window for the 2015 PSSA.)

for accountability calculations. This information is being collected to allow the flexibility of including these students in the IEP subgroup

Student participates in Title I program – All Title I students

to improve educational opportunities for educationally deprived children. Title I programs are designed mathematics. Title I students are not excluded from the PSSA. to help children meet the state content and performance standards in reading, language arts, and Title I is a federally funded supplemental education program that provides financial assistance to LEAs

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0 Education Program services by the Pennsylvania Department of Education, Division of Student Student receives Migrant Education Program services – All students identified as receiving Migrant

the Migrant Education Program portion of the PDE website for more information. these services. The official list is distributed to district superintendents and building principals. Please see Migrant Education Program services. Only personnel from this division can identify students receiving This division of PDE is responsible for compiling and distributing an official list of students eligible for

Student is classified as economically disadvantaged - All students who meet the district's economically disadvantaged criteria.

however, other criteria used by the district may be substituted. Students are commonly classified as economically disadvantaged if they qualify for free or reduced lunch;

assessed at your testing facility at parental request. Student is home-schooled and assessed at parental request – A home-schooled student is being

scores will not be included in the district or school results for accountability calculations. A home-schooled student is not to be considered as enrolled in a school program, and the student's

This information is not collected from PIMS. If a student is <u>partially enrolled at a public school</u> for his/her education, <u>do not</u> indicate that the "student is home-schooled and assessed at parental request." If a student is a full-time home education student, "Student is home-schooled and assessed at parental request" <u>must be</u> indicated in eDIRECT or on the answer booklet regardless of the type of label used

as part of a foreign exchange program. Student attends this school as part of a foreign exchange program – Student attends your school

purposes of accountability calculations. Foreign exchange students must participate in the PSSA. Only the student's participation counts for

Item 6 Student's English Language Learner (ELL) status is as follows (*indicate only one, if any*):

ELL and enrolled in a U.S. school after April 11, 2014 (previous enrollment in Puerto Rico is not considered as enrollment in U.S. schools).

be used as the enrollment date to identify students in their first year of enrollment in U.S. schools. assessment for students identified as English Language Learners who are in their first year of enrollment Participation is mandatory for the mathematics and science assessments, and optional for the ELA in a U.S. school. April 11, 2014, (the last day of the 2014 PDE-established reading testing window) should

(if attempted) is used in the calculation of the accountability participation rate. The scores for these students will not be used for accountability, but their participation in math and ELA

a booklet must still be returned. If an ELL student does not participate in the ELA assessment due to first year of enrollment in a U.S. school,

- ELL and enrolled in a U.S. school after April 11, 2014." If the student does not have a Student Precode Label, the reason for non-participation must be reflected on page 2 of the answer booklet (item 6 – option 1) or in eDIRECT by indicating "[Student is]
- in the Pennsylvania Information Management System (PIMS). If the student has a Student Precode Label, verify that the student's initial enrollment dates are correct

U.S. after the assessment, and re-enrolls in a U.S. school in the 5th grade, he/she is no longer considered due to his/her first year of enrollment in a U.S. school status. If this same student withdraws and leaves the U.S. school for the first time in 3rd grade, that student is exempt from taking the 3rd-grade ELA assessment Note: This exemption can only be used for a student one time. For example, if an ELL student enrolls in a in his/her first year of enrollment in U.S. schools and is required to take the assessment.

ELL and enrolled in a U.S. school on or before April 11, 2014.

⊒. All students identified as English Language Learners who have completed at least one year of enrollment a U.S. school must participate in all assessments

- 0 Exited an ESL/bilingual program and in the first year of monitoring
- Exited an ESL/bilingual program and in the second year of monitoring
- Former English Language Learner and no longer monitored.

The last three ELL demographic items have been included as a means for PDE to monitor the progress check your students' records carefully so the most accurate information is reported. of students who have exited ESL/bilingual programs and are in the various stages of monitoring. Please

in eDIRECT and also on the PDE website at www.education.state.pa.us. For more information on ELL, refer to the Accommodations Guidelines for English Language Learners found

Item 7 Student is currently in ESL instruction and has the following Title III status (indicate only one, if any):

classification should be marked as "Title III served." There are two categories for Title III students indirectly receive Title III funding via the instructor's professional development. Students who fall into this supplemental program that concentrates on delivering educational language instructional programs services funded by Title III. Districts/schools can apply for the Title III funding, which is a federally funded III funding for professional development; therefore, an ELL student (in an ESL instructional program) can and/or other services to students who have a primary language other than English. Districts may use Title Students who are English Language Learners (ELL) are eligible to receive supplemental instruction and/or

Title III served

directly or indirectly (as previously described), through district/school Title III funded programs Mark this when the ELL student is eligible for and receiving supplemental instruction and/or services,

Title III not served

This should be marked for either of the following scenarios:

- ELL student is eligible for supplemental instruction and/or services through district/school Title IIIfunded programs, but is not currently receiving said services.
- ELL student is eligible for supplemental instruction and/or services, but the district/school has not received Title III funding.

Note: One of the first two options in item 6 must be selected in conjunction with the Title III options in item 7. Indicating that a student is Title III (served or not served) confirms that the student is ELL and in ESL instruction.

2. ONLINE TESTING

Students testing online who do not have student data loaded into eDIRECT must have demographic information completed in eDIRECT (Test Setup > Students). Detailed instructions for completing demographic information for students testing online can be found in the eDIRECT Test Setup User Guide.

3. ACCOMMODATIONS

When an accommodation is used by a student taking a paper/pencil assessment, the Accommodations Section on page 3 of the answer booklet must be completed regardless of the label that was used. Students testing online must have accommodation information completed in eDIRECT (Test Setup > Students). Detailed instructions for completing accommodation information for online students can be found in the eDIRECT Test Setup User Guide.

Education. DRC cannot authorize the use of accommodations. For more information on accommodations, refer to an accommodation that is not listed, a documented request must be made to the Pennsylvania Department of A student's use of an accommodation is not collected from any other source for reporting. If a school wishes to use Accommodations Guidelines found in eDIRECT and the PDE website at www.education.state.pa.us

Item 8 Student used the following Presentation Accommodations (mark all that apply, if any):

- **Braille format** (Paper only) Student used a Braille version of the assessment.
- Large-print format (Paper only) Student used a large-print version of the assessment

large-print versions for this purpose. These booklets are identified as packs of 1. Form 1 answer booklet. Additional Form 1 booklets for transcription are provided with the Braille and Students who use the Braille or large-print versions must have all of their answers transcribed into a

- accessing the assessment through the online testing system and the hard copy test booklet. **program and all functions)** – Student used a PDF version of the assessment provided on a secure CD. Computer Assistive Technology—does not apply to online testing (PDE must approve the This accommodation is intended for those students with a severe disability that precludes them from
- 0 questions read aloud. Any student may request the read aloud of a word, phrase, or test item on the Some test items/questions read aloud (Mathematics and Science) – Student had some test items/ mathematics and science assessments.
- 0 Some language items/writing prompts/text dependent analysis prompts read aloud (ELA only) Student had some language items/writing prompts/text dependent analysis prompts read aloud
- 0 symbol, only the words and numbers may be read aloud, not the symbols. Also, when a student is for which the correct answer would be cued. For example, when an item asks students to identify a options) would cue the correct answer. It is not permissible to read aloud the part or parts of an item asked to identify a shape, the names of the shapes may not be read aloud. read aloud. However, there are items for which reading the item aloud (questions and/or answer All test items/questions read aloud (Mathematics and Science) – Student had the entire assessment
- 0 All language items/writing prompts/text dependent analysis prompts read aloud (ELA only) Student had all the language items/writing prompts/text dependent analysis prompts read aloud.

large green check mark, then Pennsylvania System of School Assessments (PSSA). website at www.education.state.pa.us. Click on State Assessment System on the home page next to the Read-aloud Accommodation Guidelines for Operational Assessments can be found in eDIRECT and the PDE

- 0 sign test items/questions. Test items/questions signed (Mathematics and Science) – Student used an interpreter/translator to
- 0 used an interpreter/translator to sign language items/writing prompts/text dependent analysis Language items/writing prompts/text dependent analysis prompts signed (ELA only) – Student
- 0 translator to present test items/questions. Test items/questions interpreted for ELL (Mathematics and Science) – Student used an interpreter/
- 0 only) – Student used an interpreter/translator to present language items/writing prompts/text Language items/writing prompts/text dependent analysis prompts interpreted for ELL (ELA dependent analysis prompts.
- 0 amplifier). Amplification device – Student used an amplification device (e.g., hearing aid, personal sound
- 0 the online magnification tool as an available test feature. device (e.g., CCTV, hand held magnifier, online magnifier tool). Do not select if a student simply used **Magnification device** – Student has a documented need for magnification and used a magnification
- Color overlay (Paper only) Student used a color overlay, background, or contrast.

0

- 0 Other (noise buffers, whisper phone, etc., as indicated in <u>Accommodations Guidelines</u> or a unique assessment. Some may require a separate setting. accommodation as approved by PDE) – Student used any other device or visual organizer during the
- 0 science assessment read aloud. **Audio** (Online only) – Student used the text-to-speech software to have the mathematics and/or
- 0 Color Chooser (Online only) – Student used the Color Chooser to change the background color.
- 0 Contrasting Text Chooser (Online only) – Student used the Contrasting Text Chooser to change the text color or background color.

ltem 9 Student used the following Setting Accommodations (mark all that apply, if any):

- Hospital/home setting Student completed the assessment at a hospital or at home
- 0 One-on-one setting – Student completed the assessment in a one-on-one setting
- 0 **Small group setting** – Student completed the assessment in a small group.
- 0 assessment in a separate or unique setting. Other (as indicated in Accommodations Guidelines or approved by PDE) – Student completed the

Item 10 Student used the following Response Accommodations (mark all that apply, if any):

- online test or answer booklet. Test administrator marked multiple-choice responses at student's direction – Student dictated multiple-choice responses to a Test Administrator. Responses must be marked verbatim into student's
- 0 open-ended responses to a Test Administrator. Responses must be scribed verbatim into student's online test or answer booklet. **Test administrator scribed open-ended responses at student's direction** – Student dictated
- 0 marked responses in anything other than the answer booklet being returned for scoring. Responses must be transcribed verbatim into student's online test or answer booklet. Test administrator transcribed student responses (per <u>Accommodations Guidelines</u>) – Student
- 0 verbatim into student's answer booklet. Student used an interpreter to sign responses to a Test Administrator. Responses must be scribed Qualified interpreter translated, transcribed, and/or scribed student's signed responses
- 0 Administrator. Responses must be scribed verbatim into student's answer booklet. Accommodations Guidelines) -Qualified interpreter translated, transcribed, and/or scribed ELL student responses Student used an interpreter/translator to respond ರ ۵ (per
- 0 Responses that are written or typed must be transcribed verbatim into student's answer booklet. <u>Guidelines</u>) – Student used a keyboard, word processor, or computer with the paper test booklet. Keyboard, word processor, or computer—does not apply to online testing (*per <u>Accommodations</u>*
- 0 taker. Responses must be transcribed verbatim into student's answer booklet. Brailler/Note taker (per Accommodations Guidelines) (Paper only) – Student used a Brailler/Note
- 0 Responses must be transcribed into student's answer booklet. Augmentative communication device – Student used any device to aid in communication
- 0 If an audio recording is used for writing items, the student must transcribe his/her own responses transcribed verbatim into student's answer booklet and the recording must be permanently deleted CD/electronic recorder (with NO speech recognition) to record responses. Responses must be **Audio recording of student responses (per <u>Accommodations Guidelines</u>)** – Student used a tape/

- 0 computer using Computer Assistive Technology software with the paper test booklet. Responses program and all functions) - Student dictated text into the computer or gave commands to the Computer Assistive Technology—does not apply to online testing (PDE must approve the must be transcribed verbatim into student's answer booklet.
- 0 dictionary without definitions or pictures. **Translation dictionary for ELL student** – Student used a non web-based word-to-word translation
- 0 Other (special paper, etc., as indicated in Accommodations Guidelines or a unique accommodation during the assessment. as approved by PDE) – Student used special paper (e.g., blank graph paper, large-squared paper)

Item 11 Student used the following Timing Accommodations (mark all that apply, if any):

- 0 Extended time - Student required more time than the rest of the regular testing group or required scheduled extended time.
- 0 Students must be monitored during all breaks. **Frequent breaks** – Student required frequent breaks within a regularly scheduled test session
- 0 time for medical or learning needs. No single section may be administered over more than one day. **Changed test schedule** – Student required the assessment to be administered on a different day or
- 0 Other (as indicated in Accommodations Guidelines or approved by PDE) – Student required a unique timing accommodation.

Local Student ID Grid, Optional Field, and Supplemental Data Field Grid

- V The Local Student ID grid is provided to allow districts/schools the option to continue the use of the Local
- \bigvee school and would code this field accordingly. If the district/school is not interested in gathering additional district/school. Each district/school may choose to gather information based on a specific need in the district/ The Optional Field is provided to allow districts/schools the option to measure information specific to the information, this field may be left blank.
- V The Supplemental Data Field will only be used in the event that a determination is made that the demographic reporting requirements. This field will be used if districts/schools are instructed to do so by DRC or PDE. information already contained in the answer booklets has overlooked an element that should be considered for

4. TRANSCRIBING

student has recorded. No corrections are allowed for spelling, punctuation, or grammar. choice and open-ended) must be transcribed by the School Assessment Coordinator or designee exactly as the pages, and large-print answer booklets will not be processed for scoring. Using a No. 2 pencil, responses (multiplemust be transcribed into an answer booklet of the correct form designation. Typewritten pages, separate handwritten Student responses that are marked or written in anything other than the answer booklet being returned for scoring

figures the student made, copy the drawings or figures onto the correct space in the answer booklet. For ELA, student's original responses. taking care to replicate misspelled words, all uppercase/lowercase letters, and all spacing and paragraphing in the transfer the student's responses exactly the student's responses, including any work done to achieve the responses, exactly as written. For drawings or Multiple-choice items should be transferred first. For mathematics and science constructed-response items, transfer -letter for letter, punctuation mark for punctuation mark, word for word

PART V – TEST SECURITY

contents to anyone. (This prohibition excludes the PSSA Item and Scoring Samplers available on PDE's website.) school personnel with access to the assessment materials must not discuss, disseminate, or otherwise reveal the assessments as preparation tools) is strictly prohibited and will be considered a violation of test security. District/ validity and security (e.g., group work, teacher coaching, teaching or release of any PSSA items, use of old Pennsylvania The PSSAs rely on the measurement of individual achievement. Any deviation from procedures meant to ensure

suspension or prohibition from being employed by a charter school. public reprimand, a suspension of their teaching certificate(s), a revocation of their teaching certificate(s), and/or a action under the Professional Educator Discipline Act, 24 P.S. § 2070.1a et seq, including a private reprimand, a falsify student scores, or compromise the integrity of the state assessment system will be subject to disciplinary Any action by a professional employee or commissioned officer that is willfully designed to divulge test questions,

assessment content to others. mark their final response in the answer booklet. Students must not discuss, disseminate, or otherwise reveal the any extraneous marks in the answer booklet (e.g., crossing out answers believed to be incorrect). Students must through an answer bubble or by bubbling multiple answers and later erasing. Likewise, students should not make pencil marks. As such, it is not appropriate to have students taking a paper assessment eliminate answers by striking **Avoid inappropriate test-taking strategies** – Every answer booklet will be processed by scanners that detect all

must report any suspected violations of testing protocol to the Pennsylvania Department of Education immediately. testing irregularities/security breaches to the District Assessment Coordinator. The District Assessment Coordinator Allegations should be referred to: 00 testing @psupen.psu.edu or by phone at 717-787-4234. principal, or the Pennsylvania Department of Education. The School Assessment Coordinator must report the Test Administrators must report testing irregularities/security breaches to the School Assessment Coordinator,

Please keep a record of system failures such as the loss of the internet, etc., in the event an excessive login report is questioned regarding any of your students. PDE has DRC (the test contractor) prepare a report on excessive logins by the same student to an online assessment.

Refer to the Ethical Standards of Test Administration found in Appendix B of this handbook. Also refer to the Test Security Policy found in eDIRECT. Click on Documents under the General Information tab on the left menu. Select 'General Testing Information' under Administration and 'PDE Procedures and Guidelines' under Document Type.

1. SECURE STORAGE

Test Administrators should be given access to secure test materials on the morning of test administration. areas. Test Administrators must not be given access to secure test materials before the administration day. Instead secure storage area at both the district and school levels. Secure materials must never be left unattended or in open All paper answer and test booklets and test tickets for online assessments must be kept in a predetermined, locked,

- The Directions for Administration Manuals are not considered secure test materials and should be provided to Test Administrators prior to the assessment for review.
- V testing is completed for the day. Materials must be kept secure after testing and prior to shipping to DRC All testing materials must be returned immediately to the predetermined, locked, secure storage area after
- V Please refer to the eDIRECT Test Setup User Guide for information on security associated with online testing

2. TEST SECURITY CERTIFICATIONS

It is required that each District Assessment Coordinator, School Assessment Coordinator, Principal, Test Administrator, Assessment Coordinator, Principal, Test Administrator, Principal, PrincSecurity Certifications must be signed **after** the assessments have been administered either online or paper. Proctor, and any individual who handles secure assessment materials sign a Test Security Certification. The Test

- administered during the testing window. The executed Test Security Certification for District Assessment Certifications should not be returned to Data Recognition Corporation. Certification after the end of the testing window. This Certification will cover security for all assessments handbook. Each District Assessment Coordinator is responsible for photocopying and signing the The District Assessment Coordinator Test Security Certification is provided in Appendix E of this Coordinators must be retained for three years by the Chief School Administrator. The signed Test Security
- Data Recognition Corporation. retain the Certifications for three years. The signed Test Security Certifications should not be returned to Coordinator's and Principal's signature and return the form to the Chief School Administrator who must window. It is the responsibility of the District Assessment Coordinator to obtain the School Assessment be signed and dated by the School Assessment Coordinator and Principal after the end of the testing the testing window. The School Assessment Coordinator and Principal Test Security Certification must Appendix E of this handbook. This Certification will cover security for all assessments administered during The School Assessment Coordinator and Principal Test Security Certification can be found in
- completion of the assessment administration, the signed form must be returned to the School Assessment Administrator must read and understand the Test Administrator and Proctor Test Security Certification. Upon receiving any assessment materials or participating in the administration of the PSSA in any way, the Test this certification to all Test Administrators and Proctors involved in the administration of the PSSA. Prior to Prior to the administration of the assessment, the School Assessment Coordinator must distribute copies of handbook. This Certification will cover security for all assessments administered during the testing window The Test Administrator and Proctor Test Security Certification is provided in Appendix E of this
- Certification must be retained for three years by the Chief School Administrator. The signed Test Security Certifications should not be returned to Data Recognition Corporation. window and who is not covered by any of the other certifications. The executed General Test Security any individual (custodian, secretary, etc.) who will handle secure assessment materials during the testing The General Test Security Certification is provided in Appendix E of this handbook. This Certification is for

If an individual does not execute the appropriate Test Security Certification, the Chief School Administrator must failure to execute the Test Security Certification. the refusal and must include a description of the action taken by the Chief School Administrator in response to the reason or reasons why the Certification was not executed. The explanation must be provided within five days of provide the Department of Education's Bureau of Assessment and Accountability with a written explanation of the

The written explanation should be sent to rayyoung@pa.gov or to:

Ray A. Young Chief, Division of Instructional Quality 333 Market Street – 3rd Floor Harrisburg, PA 17126

PART VI - RECEIPT AND DISTRIBUTION OF MATERIALS

I. DISTRICT AND SCHOOL COORDINATOR CHECKLISTS

The following checklists are general guidelines of critical dates by which an activity should take place. As a reminder, schools that receive materials directly from DRC should use both checklists.

District Assessment Coordinator's Checklist for the 2015 PSSA Administration	dministration
Receive Shipment I from DRC	March 16, 2015
Distribute Shipment I to School Assessment Coordinators	March 18, 2015
Read the Handbook for Assessment Coordinators	March 19, 2015
Distribute parent/guardian flyers in newsletter or mail	March 19, 2015
Conduct orientation session for School Assessment Coordinators	by March 23, 2015
Receive Shipment II from DRC	March 30, 2015
Distribute Shipment II to School Assessment Coordinators	March 30, 2015
Request additional materials (if needed)	March 30–May 7, 2015
PSSA English Language Arts Assessment Window	April 13–17, 2015
Inventory English Language Arts materials returned by schools	April 20, 2015
Return English Language Arts materials to DRC	April 22, 2015
PSSA Mathematics Assessment Window	April 20–24, 2015
Inventory Mathematics materials returned by schools	April 27, 2015
Return Mathematics materials to DRC	April 29, 2015
PSSA Science Assessment Window	April 27–May 1, 2015
Inventory Science materials returned by schools	May 4, 2015
Return Science materials to DRC	May 6, 2015
ELA, Math, and Science Make-Up Window (if needed)	May 4–8, 2015
Inventory and return ALL secure assessment materials to DRC	May 8, 2015

May 13, 2015	Destroy handbooks, administration directions, and scratch paper
May 8, 2015	Package and return all make-up materials and any other secure assessment materials to the District Assessment Coordinator
May 4–8, 2015	Assist and supervise Test Administrators during the ELA, Math, and Science make-up assessments
May 1, 2015	Inventory, package, and return Science materials to the District Assessment Coordinator
April 27–May 1, 2015	Assist and supervise Test Administrators during the Science assessments
April 24, 2015	Inventory, package, and return Math materials to the District Assessment Coordinator
April 20–24, 2015	Assist and supervise Test Administrators during the Math assessments
April 17, 2015	Inventory, package, and return ELA materials to the District Assessment Coordinator
April 13–17, 2015	Assist and supervise Test Administrators during the ELA assessments
by April 6, 2015	Conduct orientation session for Test Administrators
March 30–May 7, 2015	Request additional materials (if needed)
March 30, 2015	Receive and inventory Shipment II
by March 23, 2015	Attend School Assessment Coordinator orientation
March 23, 2015	Read the Handbook for Assessment Coordinators and the Directions for Administration Manuals
March 19, 2015	Distribute parent/guardian flyers in newsletter or mail (if assigned to do so by the district)
March 19, 2015	Distribute the <i>Directions for Administration Manuals</i> to appropriate personnel
March 18, 2015	Receive and inventory Shipment I
ninistration	School Assessment Coordinator's Checklist for the 2015 PSSA Administration

2. RECEIPT OF MATERIALS

For the spring 2015 assessments, materials for all subjects will arrive at the same time in two separate shipments. Districts and schools should be prepared to receive, store, and distribute the volume of boxes associated with the multiple assessments. For ship-to-district sites, school boxes are provided for each participating school. If not inventoried centrally, the boxes should be sent to the schools as soon as they have been received. A copy of each school's packing list is contained in the district administrative materials. Ship-to-school and other special sites receive both district and school materials.

an orientation session. should be done as soon as the manuals are received to allow time for the Test Administrators to study them prior to should be given ample time to distribute the Directions for Administration Manuals to Test Administrators. This Shipment I will contain this handbook and the *Directions for Administration Manuals*. School Assessment Coordinators

https://pa.drcedirect.com

Shipment II contains the secure assessment booklets, precode labels, *Online Directions for Administration Manuals*, and all Spanish materials. If this shipment is not received by March 30, 2015, District Assessment Coordinators (or School Assessment Coordinators at ship-to-school districts) should contact DRC directly by calling a DRC Customer Service Representative at 1-800-451-7849.

completing an online assessment. student is testing online, the precode label can be discarded. A booklet does not need to be returned for a student Note: DRC will be providing precode labels for all students regardless of whether they are testing online. If a

- Inventory the materials carefully and immediately upon receipt. If more materials are needed:
- Ship-to-district sites must contact their District Assessment Coordinator immediately. District Assessment Coordinators must complete an Additional Materials Request in eDIRECT.
- Ship-to-school sites must complete an Additional Materials Request in eDIRECT.
- For more details on completing an Additional Materials Request, see page 3 of this handbook
- V and strength from the school may be substituted.) Be sure to save the box(es) in which the materials were sent. They will be used to return the materials after the assessments. (If a box is damaged, or if all materials do not fit into the original box(es), a box similar in size
- V After inventorying Shipment II, store all materials in a predetermined, locked, secure storage area
- Complete the Materials Receipt Notice in eDIRECT (see page 3).

SHIPMENT I MATERIALS (for all assessments)

DISTRICT—ADMINISTRATIVE MATERIALS

- Copies of School Packing List(s)—one per school
- to-district sites School Box Range Sheet—indicates the number of boxes packaged for each school in the district for ship-
- Handbook for Assessment Coordinators—this manual
- Grade-specific paper/pencil Directions for Administration Manuals

SCHOOL—MANUALS

- Handbook for Assessment Coordinators—this manual
- Grade-specific paper/pencil Directions for Administration Manuals

SHIPMENT II MATERIALS (for all assessments)

DISTRICT—ADMINISTRATIVE AND RETURN MATERIALS

- School Box Range Sheet—indicates the number of boxes packaged for each school
- DRC Return Shipment Labels
- UPS Return Shipment (RS) Labels
- Plastic Return Shipment Bags—used to package answer booklets for return to DRC
- Plastic ties—for sealing Plastic Return Shipment Bags
- Grade-specific Online Directions for Administration Manuals (if testing online)

SCHOOL—ADMINISTRATIVE MATERIALS

- Security Checklist
- School Packing List
- Supplementary Information for Assessment Coordinators and Administrators
- Student Precode Labels, District/School Labels, and Do Not Score Labels
- Spanish-translation Directions for Administration Manuals (when applicable)
- Grade-specific Online Directions for Administration Manuals (if testing online)

SCHOOL—SECURE PSSA MATERIALS

English Language Arts

- Grade 3 ELA bookletsshrink-wrapped in packs of 17 and presented as a combined test/answer booklet
- Grade 3 ELA scoring guidelines—shrink-wrapped in packs of 20
- Grades 4–8 ELA test and answer booklets—shrink-wrapped in packs of 17

Note: The test booklets and answer booklets will be shrink-wrapped together by form designation (i.e., a Form 1 test booklet will always be followed by a Form 1 answer booklet).

- Grade 4 ELA scoring guidelines—shrink-wrapped in packs of 20
- Grade 5 ELA scoring guidelines—shrink-wrapped in packs of 20
- Grade 6 ELA scoring guidelines—shrink-wrapped in packs of 20
- Grade 7 ELA scoring guidelines—shrink-wrapped in packs of 20
- Grade 8 ELA scoring guidelines—shrink-wrapped in packs of 20
- Shrink-wrapped large-print ELA test and answer booklets (per grade level, if applicable)
- Shrink-wrapped Braille ELA booklets (per grade level, if applicable)
- Shrink-wrapped Form 1 ELA test and answer booklets for transcription (per grade level, only provided with large-print and Braille booklets)

Mathematics

- Grade 3 mathematics booklets—shrink-wrapped in packs of 17 and presented as a combined test/answer
- Grade 3 mathematics scoring guidelines—shrink-wrapped in packs of 20
- Rulers for grade 3 students to answer PSSA mathematics questions
- Grades 4–8 mathematics test and answer booklets—shrink-wrapped in packs of 17

Form 1 test booklet will always be followed by a Form 1 answer booklet). Note: The test booklets and answer booklets will be shrink-wrapped together by form designation (i.e., a

- Protractors for grade 4 students to answer PSSA mathematics questions
- Grade 4 mathematics scoring guidelines/formula sheets—shrink-wrapped in packs of 20
- Grade 5 mathematics scoring guidelines/formula sheets—shrink-wrapped in packs of 20
- Grade 6 mathematics scoring guidelines/formula sheets—shrink-wrapped in packs of 20
- Grade 7 mathematics scoring guidelines/formula sheets—shrink-wrapped in packs of 20
- Grade 8 mathematics scoring guidelines/formula sheets—shrink-wrapped in packs of 20
- Shrink-wrapped Spanish-translation test and answer booklets (per grade level, if applicable)
- Spanish-translation scoring guidelines/formula sheets (per grade level, if applicable)

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- Shrink-wrapped large-print mathematics test and answer booklets (per grade level, if applicable)
- Shrink-wrapped Braille mathematics booklets (per grade level, if applicable)
- provided with large-print and Braille booklets) Shrink-wrapped Form 1 mathematics test and answer booklets for transcription (per grade level, only
- Red stickers to seal the mathematics, non-calculator items in Section 1 (grades 4–8 only)

Science

Grades 4 and 8 science test and answer booklets—shrink-wrapped in packs of 17

Form 1 test booklet will always be followed by a Form 1 answer booklet) Note: The test booklets and answer booklets will be shrink-wrapped together by form designation (i.e., a

- Scoring Guidelines—shrink-wrapped in packs of 20
- Shrink-wrapped Spanish-translation test and answer booklets (per grade level, if applicable)
- Spanish-translation scoring guidelines (per grade level, if applicable)
- Shrink-wrapped large-print science test and answer booklets (per grade level, if applicable)
- Shrink-wrapped Braille science booklets (per grade level, if applicable)
- with large-print and Braille booklets) Shrink-wrapped Form 1 science test and answer booklets for transcription (per grade level, only provided

3. DISTRIBUTION OF ASSESSMENT MATERIALS

a classroom. Under no circumstances should you arrange the booklets by form designation prior to distribution. in each shrink-wrapped pack. The spiraling process ensures an equal distribution opportunity for each form within with the test booklets. For all assessments, test and answer booklets have been spiraled in a predetermined sequence All assessment booklets are in shrink-wrapped packages. Where applicable, answer booklets are packaged together

shrink-wrapped packages may be broken open to assemble proper quantities for each Test Administrator. Shrink-Administrators. It is vital that everyone understand the importance of assigning materials by security range. The most cases, the School Assessment Coordinator will be responsible for assigning secure ranges of materials for Test numbers it contains. These range sheets can be used to inventory the booklets without opening the packages. In Each shrink-wrapped package has a range sheet that identifies the quantity of booklets and the range of security ready to affix barcode labels, no more than one week prior to the start of a testing window. wrapped packages should only be opened at the school level and should not be opened until school personnel are

one extra assessment booklet to use as a sample, as the *Directions for Administration Manuals* may instruct the Test possible on each day of an assessment. Administrator as recorded on the Security Checklist. In addition, each Test Administrator should be given at least On the days of an assessment, distribute the correct booklets needed for that day's assessment to each Test Administrators to use a sample booklet for demonstration. All assessment materials should be returned as soon as

eDIRECT. For more information on how to print and distribute the test tickets, see the eDIRECT Test Setup User Guide. materials and must be managed during distribution to the students. The test tickets are generated and printed from If the school has students testing online, test tickets will be distributed to each student. These test tickets are secure

Administration Manuals, and scratch paper. Assessment Coordinator, including used and unused test and answer booklets, test tickets, the *Directions for* After all testing is complete for an assessment, be sure Test Administrators return **all** materials to the School

4 PROCEDURES FOR ASSIGNING BOOKLETS USING SECURITY NUMBERS

the Security Checklist. Any discrepancies that are not resolved before materials are returned to the District any difference between the number of materials distributed and the number returned by noting the reason on The Security Checklist should be used as a tool to account for the secure materials as they are distributed to the permitted to retain any assessment booklets for any reason after all testing and make-ups are complete Assessment Coordinator must be noted on the Materials Accountability Form found in eDIRECT. No one is Test Administrators and to monitor the materials as they are returned by the Test Administrators. Account for

help the site locate the missing document(s). If DRC determines that a site has not returned all materials from one of the assessments, the Security Checklist may The Security Checklist should not be returned to DRC. Instead, keep this list on file after you return materials to DRC.

5. PAsecureID LIST

The Pennsylvania Department of Education requires that all School Assessment Coordinators generate a list(s) of students by PAsecureID to show all students taking the PSSA for both online and paper. All lists must be retained at the district/school for three years and must be available when requested by PDE.

school name, Test Administrator, PAsecureID, grade, subject being administered, and year. Below is a sample layout. Each list should indicate which students are being assessed by which Test Administrator. The list should include the

PA School	School Name					
Mr. Trenholm	Test Administrator					
1122334455	4567891230	4567891230	1234567890	1234567890	1234567890	PAsecureID
8	8	8	8	8	8	Grade Tested
Science	ELA	Math	Science	ELA	Math	Subject
2015	2015	2015	2015	2015	2015	Year

PART VII – PREPARATION AND MANAGEMENT OF THE ASSESSMENTS

1. SCHEDULING THE ASSESSMENT

each of their schools. with a link to a survey that will be used to collect this information. LEAs are required to submit this information for pencil) it has selected for administering the PSSAs. Each LEA will receive an e-mail from DRC Customer Service windows. However, every LEA is required to provide PDE with the specific dates and mode (online or paper) PDE provides the flexibility for districts to choose specific testing dates that work within the PDE-established testing

conclude (with the exception of make-ups) on April 24, 2015. The science assessment must not be scheduled before April 27, 2015, and must conclude (with the exception of make-ups) on May 1, 2015. completed by April 17, 2015. The mathematics assessment must not be scheduled before April 20, 2015, and must It is important to establish an assessment schedule prior to testing. For the ELA assessment, the first administration must not be scheduled before April 13, 2015. With the exception of make-ups, all ELA assessments must be

of distress that could result in students performing below their capabilities. District personnel are urged to keep the bomb threat, fire in the school, plumbing or heating problems, death of a classmate, etc.) may have caused a level unusual circumstances delay the anticipated start date. It may be advisable to postpone the assessment if a large percentage of the school population is absent on any selected day or days, or if a disruption or event (such as a Scheduling the assessment to occur at the beginning of the window will allow the school more flexibility if any When possible, the first days of the PDE-established testing window should be used for administering the assessment.the assessment in the early portion of the assessment windows should eliminate most scheduling problems. best interests of the students in mind when making a determination to reschedule assessment dates. Administering

due to availability of computers, iPads, and/or Chromebooks. paper/pencil administration at the same time. Staggered start times may be necessary for students testing online the extent possible, all students participating in a subject/grade-specific assessment in a school should begin the and available facilities. Appropirate test conditions optimize the chance for greater accuracy of the performance. To The assessments should be given in regular classroom settings, but other settings may be used based on school needs

after a significant lapse of time from the original session. Any student granted an extended assessment scheduled session in another setting. Students should not be permitted to continue a section of the assessment beyond the majority of the student population may be allowed to continue immediately following the regularly students to complete the assessment may impact student and school performance. Students requiring time be granted if the Test Administrator finds the request to be educationally valid. Not permitting ample time for Students may request extended time if they indicate that they have not completed the task. Such requests should testing online. period must have this information gridded in his or her answer booklet on page 3 or in eDIRECT for students

2. ADMINISTERING THE ENGLISH LANGUAGE ARTS PSSA

concerning accommodations day. Any student requesting additional time should be allowed the extra time. See page 18 for more information are printed in the test booklets. In all cases, individual assessment sections must be completed within one school administered in the same testing session, as long as the sections are administered in the sequence in which they one assessment session; however, testing sites can make the final determination whether multiple sections can be The English Language Arts assessment consists of a total of four sections. Each section should be scheduled as

With the exception of grade 3, each student will have one test booklet and one answer booklet; the grade assessment is presented in one combined test and answer booklet

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- V a Form 3 test booklet, that student must be assigned a Form 3 answer booklet. assessment. Because there are multiple forms at each grade level, it is imperative that students are provided a test booklet and an answer booklet with the same form designation. For example, if a student is assigned Answer booklets contain space for recording answers to the multiple-choice, selected-response, and constructedresponse questions. Each student must use the same test booklet and answer booklet for all sections of the
- V of the booklets. The only match between test and answer booklets is the form designation printed on the Under no circumstances should you attempt to match forms by the security barcode printed on the back booklet may adversely affect district, school, and student results. front cover of each booklet. Failure to ensure that students have the same form of the test booklet and answer

The following chart outlines the PSSA English Language Arts assessment schedule guidelines and estimated times for each section for each grade.

	7	6	5	4	3	Grade	
65 to 80	1 59	60 to 75	60 to 75	65 to 80	55 to 70	Administration Time (Total Time)	
20	15 to 20	15 to 20	15 to 20	15 to 20	15 to 20	Administrative Time (Pre-test & Post-test)	ELA: Reading
6	50 to 60	45 to 55	45 to 55	50 to 60	40 to 50	. 4 Student Testing Time	Section 4
R /SR	7 MC/SR 1 CR	6 MC/SR 1 CR	6 MC/SR 1 CR	7 MC/SR 1 CR	12 MC/SR 1 CR	Number of Items	
8	85 to 100		85 to 100 85 to 100	85 to 100	60 to 75	Administration Time (Total Time)	
20	15 to 20	15 to 20	15 to 20	15 to 20	15 to 20	Administrative Time (Pre-test & Post-test)	ELA: Reading
80	70 to 80	70 to 80	70 to 80	70 to 80	45 to 55	.3 Student Testing Time	Section 3
/SR	16 MC/SR 1 CR	16 MC/SR 1 CR	16 MC/SR 1 CR	16 MC/SR 1 CR	16 MC/SR 1 CR	Number of Items	
8	75 to 90	80 to 95	80 to 95	75 to 90	55 to 70	Administration Time (Total Time)	
ő	15 to 20	15 to 20	15 to 20	15 to 20	15 to 20	Administrative Time (Pre-test & Post-test)	ELA: Reading
0	60 to 70	65 to 75	65 to 75	60 to 70	40 to 50	. 2 Student Testing Time	Section 2
SR	22 MC/SR 0 CR	23 MC/SR 0 CR	23 MC/SR 0 CR	22 MC/SR 0 CR	12 MC/SR 1 CR	Number of Items	
55	70 to 85	70 to 85	70 to 85	70 to 85	70 to 85	Administration Time (Total Time)	
Ö	15 to 20	15 to 20	15 to 20	15 to 20	15 to 20	Administrative Time (Pre-test & Post-test)	ELA: Writing
5,	55 to 65	55 to 65	55 to 65	55 to 65	55 to 65	Student Testing Time	Section 1
	20 MC 1 CR	20 MC 1 CR	20 MC 1 CR	20 MC 1 CR	20 MC 1 CR	Number of Items	
	7	6	5	4	3	Grade	
		IUTES)	LA (In Min	OR PSSA E	TIMES FO	SUGGESTED ASSESSMENT TIMES FOR PSSA ELA (In MINUTES)	

MC refers to multiple-choice questions.

SR questions are selected-response questions.

CR (constructed-response) questions include writing prompts, short-answer questions, and text-dependent analysis questions.

3. ADMINISTERING THE MATHEMATICS PSSA

assessment session; however, testing sites can make the final determination whether multiple sections can be concerning accommodations day. Any student requesting additional time should be allowed the extra time. See page 18 for more information are printed in the test booklets. In all cases, individual assessment sections must be completed within one schoo administered in the same testing session, as long as the sections are administered in the sequence in which they mathematics assessment consists of a total of three sections. Each section should be scheduled as one

in grade 4. Any student taking the online assessment will not need a physical ruler or protractor; these tools are provided as resources on the testing software. For more information on how to use these tools, see the *Online Directions for Administration Manuals*. Students may practice using the online tools by accessing the Online Tools sticker. One ruler will be supplied for each student in grade 3. One protractor will be supplied for each student assessment is presented in one combined test and answer booklet. Students in grades 4–8 will receive one red With the exception of grade 3, each student will have one test booklet and one answer booklet; the grade Training and Tutorials.

- Answer booklets contain space for recording answers to the multiple-choice and open-ended questions. Each student must be assigned a Form 3 answer booklet. student must use the same test booklet and answer booklet for all sections of the assessment. Because there are booklet with the same form designation. For example, if a student is assigned a Form 3 test booklet, that multiple forms at each grade level, it is imperative that students are provided a test booklet and an answer
- V of the booklets. The only match between test and answer booklets is the form designation printed on the Under no circumstances should you attempt to match forms by the security barcode printed on the back front cover of each booklet. Failure to ensure that students have the same form of the test booklet and answer booklet may adversely affect district, school, and student results.
- V to be used by a student, then it is the responsibility of the Test Administrator to make sure that the physical assessment, students are permitted to use their own calculators or ones that the school might provide. See At the beginning of Section 1 of the grades 4–8 mathematics assessment, students are NOT permitted to use a calculator is not given to the students until after the non-calculator items have been completed the testing software will not be accessible during the non-calculator items. If the online calculator is not going page 5 for more information concerning allowable calculator use. For students testing online, the calculator in upon completion of the non-calculator mathematics items. For the remaining mathematics sections of the calculator. Students will use the red stickers provided to seal the cover page through page 6 of the test booklets

The following chart outlines the PSSA Mathematics assessment schedule guidelines and estimated times for each section for each grade.

	Adminis	Mathematics Adminis		Number of Items	Adminis	Mathematics Adminis	Section 2 Student	Number	Adminis	Mathematics Adminis		Number		SL
Grade	Administration Time (Total Time)	Administrative Time (Pre-test & Post-test)	Student Testing Time	of Items	Administration Time (Total Time)	Administrative Time (Pre-test & Post-test)	Student Testing Time	Number of Items	Administration Time (Total Time)	Administrative Time (Pre-test & Post-test)	Student Testing Time	Number of Items	Grade	SUGGESTED ASSESSMENT TIMES FOR PSSA MATHEMATICS (In MINUTES)
3	65 to 80	15 to 20	50 to 60	24 MC 1 OE	65 to 80	15 to 20	50 to 60	24 MC 1 OE	70 to 85	15 to 20	55 to 65	24 MC 2 OE	3	ES FOR PS
4	65 to 80	15 to 20	50 to 60	24 MC 1 OE	65 to 80	15 to 20	50 to 60	24 MC 1 OE	70 to 85	15 to 20	55 to 65	24 MC 2 OE	4	SA MATH
5	65 to 80	15 to 20	50 to 60	24 MC 1 OE	65 to 80	15 to 20	50 to 60	24 MC 1 OE	70 to 85	15 to 20	55 to 65	24 MC 2 OE	5	EMATICS (
6	65 to 80	15 to 20	50 to 60	24 MC 1 OE	65 to 80	15 to 20	50 to 60	24 MC 1 OE	70 to 85	15 to 20	55 to 65	24 MC 2 OE	6	IN MINUTES
7	65 to 80	15 to 20	50 to 60	24 MC 1 OE	65 to 80	15 to 20	50 to 60	24 MC 1 OE	70 to 85	15 to 20	55 to 65	24 MC 2 OE	7	3)
8	65 to 80	15 to 20	50 to 60	24 MC 1 OE	65 to 80	15 to 20	50 to 60	24 MC 1 OE	70 to 85	15 to 20	55 to 65	24 MC 2 OE	8	

MC refers to multiple-choice questions. OE questions are open-ended questions.

4. ADMINISTERING THE SCIENCE PSSA

The science assessment consists of two sections at grades 4 and 8. Each section should be scheduled as one assessment session; however, testing sites can make the final determination whether multiple sections can be concerning accommodations. day. Any student requesting additional time should be allowed the extra time. See page 18 for more information are printed in the test booklets. In all cases, individual assessment sections must be completed within one school administered in the same testing session, as long as the sections are administered in the sequence in which they

- multiple forms at each grade level, it is imperative that students are provided a test booklet and an answer student must use the same test booklet and answer booklet for all sections of the assessment. Because there are Answer booklets contain space for recording answers to the multiple-choice and open-ended questions. Each student must be assigned a Form 3 answer booklet. booklet with the same form designation. For example, if a student is assigned a Form 3 test booklet, that
- V Under no circumstances should you attempt to match forms by the security barcode printed on the back of the booklets. The only match between test and answer booklets is the form designation printed on the booklet may adversely affect the district and school results. front cover of each booklet. Failure to ensure that students have the same form of the test booklet and answer

section for each grade. The following chart outlines the PSSA Science assessment schedule guidelines and estimated times for each

8	4	Grade	
65 to 80	60 to 75	Administration Time (Total Time)	
15 to 20	15 to 20	Administrative Time (Pre-test & Post-test)	טפכנו
50 to 60	45 to 55	Student Testing Time	0 2 1.
35 MC 3 OE	34 MC 3 OE	Number of Items	
65 to 80	60 to 75	Administration Time (Total Time)	
15 to 20	15 to 20	Administrative Time (Pre-test & Post-test)	ספכנו
50 to 60	45 to 55	Student Testing Time	<u> </u>
35 MC 3 OE	34 MC 3 OE	Number of Items	
8	4	Grade	
	FOR SCIENCE	SUGGESTED ASSESSMENT TIMES FOR SCIENCE (In Minutes)	

MC refers to multiple-choice questions. OE questions are open-ended questions.

. PARENT/GUARDIAN NOTIFICATION OF THE ASSESSMENTS

student enrolled in your school(s) about three weeks prior to the assessment. to use as is or to revise to suit your needs. This information must be distributed to the parent or guardian of each A sample parent/guardian flyer that covers all the assessments has been included in Appendix A of this handbook

to distribute this letter as a means to ensure that all students and parents/guardians fully understand the policy A parent letter regarding electronic devices has also been included in Appendix A. PDE strongly encourages districts regarding electronic devices in the testing rooms.

Please note that the district or school is responsible for duplicating the flyers. Copies are not provided, except for the samples in this handbook. If a district newsletter is regularly published, include the information in the newsletter. delivery to parents and guardians. However, if history indicates that parents/guardians do not regularly read the newsletter, direct mail may ensure

6. PREPARING STUDENTS FOR THE ASSESSMENT

sent to parents/guardians. Explain to the students why they are being given the assessments and how the results will be used. Usually, students can sense the importance the Test Administrator places on the assessment and their will be receiving the results. However, no assessment situation should be unduly stressful for students. as to the future of the school and its programs. They may also be informed that their parents/guardians and teachers performance may be affected accordingly. Students should realize that doing their best is important to them as well Inform students of the scheduled assessment sessions in advance, perhaps at the time the informational flyers are

Inform students of the following:

- They are permitted to use scratch paper.
- They are **not** permitted to use ink pens.
- of the mathematics assessment. (Please refer to Calculator Policy found in Appendix C They may use their own calculators (or school-supplied, if applicable) for the science assessment and most

sanctions for student misconduct during the PSSAs. This includes, but is not limited to, sanctions associated with In addition, PDE encourages districts to inform students BEFORE TESTING of the locally determined ramifications/

- cheating and
- sharing and/or reproduction of test content.

School/district personnel must discuss the Code of Conduct for Test Takers with all students prior to the scheduled assessment time. It is essential that students understand the importance of each point in the code of conduct before testing begins. (Please refer to Appendix D of this handbook.)

7. PREPARING THE CLASSROOM PRIOR TO THE ASSESSMENT

students to sharpen pencils during the assessment sessions as this may be disruptive to other students smoothly. During the assessment sessions, keep disturbances to a minimum. One way to do this is to put a sign is essential for concentration on the task. Extra sharpened pencils should be available to students. Do not permit on the door(s) to the classroom to indicate that an assessment session is taking place. A quiet, calm atmosphere Good organization of assessment materials and well-executed procedures will make the administration proceed

Remove or cover all classroom instructional materials that may affect the validity of the PSSA. For example, posters about math rules or times tables should be covered or removed from the room on the assessment days

DO NOT DISPLAY:

- vocabulary words and/or definitions
- examples of problems or answers
- instructions on how to use a calculator
- tips on how to write responses and/or solve problems
- illustrations or drawings of geometric shapes, algebraic equations, graphs, or number lines

3. MANAGING EXTENDED ASSESSMENT SESSIONS

students are finished. Students who finish early may sit quietly or read for pleasure until all students have finished. student not be given an opportunity to waste time. Students should close their booklets when they have finished the section of the assessment in which they were working. Test Administrators must collect test materials when rushed and no student should be penalized because he or she works slowly. It is equally important; however, that a sections at the same time. Use the flexibility of the time limits to the students' advantage. Students should not feel Students should complete all tasks to the best of their ability; however, not all students will finish the assessment

information selected in his or her answer booklet on page 3 or in eDIRECT for students testing online. regularly scheduled session in another setting. Any student granted an extended assessment period must have this finds the request to be educationally valid. Students should be permitted to continue immediately following the should be arranged for these students. Requests for extended time should be granted if the Test Administrator or service contracts) and students who work slowly may require extended Students with special requirements (i.e., physical, visual, auditory, or learning disabilities as defined by their IEPs time. Special assessment situations

When allowing extended assessment sessions for a portion of the student population:

- original session and the extended session. Do not allow students to attend a lunch period with other students if the lunch period occurs between the
- Do not allow students to attend any classes between the original session and the extended session
- Do not allow any overnight extensions.
- Do not allow students to return to an unfinished section after indicating they have completed that section.
- Coordinator's responsibility to make arrangements for a Test Administrator to monitor extended sessions Do not allow the extended session to be administered without monitoring. It is the School Assessment

9. MANAGING DAMAGED ANSWER BOOKLETS

and loose pages returned for one student will not be scored. undamaged answer booklet. Do not insert pages from one answer booklet into another. Multiple documents completed, school personnel must transcribe all of the student's responses from the defective booklet into the defect was discovered and use the new booklet for the remainder of the assessment. After the assessment has been or more sections of the assessment, he or she should start working in the new booklet at the point where the <u>of the same form designation</u> and allow the student to continue working. If the student has already begun one If a student receives an answer booklet with damaged or missing pages, replace the booklet with an answer booklet

Write "DEFECTIVE" on the damaged answer booklet and apply a Do Not Score Label over the existing label on the front cover of the damaged booklet. Return the damaged booklet with the rest of the school's answer booklets.

10. MAKE-UP SESSIONS

separate session. If multiple sections are missed, the make-up session(s) must follow the order of the booklet. as the rest of the testing population upon return. The section that was missed due to absence can be made up in a If a student is absent during a testing session, he or she should resume or begin the assessment in the same section

- the procedures established by their district when scheduling make-up testing. administer make-ups as needed throughout the entire PSSA testing window. In all cases, schools should follow A separate window has been established to facilitate make-up testing (May 4–8, 2015); however, schools should
- V student—the PDE-established windows for each subject will have already passed. If a school receives a new student during the make-up window, no assessments should be administered to the
- If a student becomes ill (as determined by a school nurse, health room aide, principal, etc.) during the was completing when the illness occurred. The student **must** be monitored closely so that responses to previous administration of a section of the assessment and the student is unable to complete the section, the student may complete that section during a make-up session upon return to school, starting with the item the student

PART VIII – RETURN OF ASSESSMENT MATERIALS

at all times and return all materials as directed in this section. Assessment Coordinator, and persons responsible for handling test materials can account for these materials In the interest of test security it is of the utmost importance that the District Assessment Coordinator, School

misappropriation of materials has compromised the integrity of test items. consequences of which can be severe, up to and including remuneration should it be determined loss of or Failure to account for and/or return assessment materials constitutes a potential breach in security, the

should be retained to account for make-ups and new enrollments. Coordinators should be prepared to box and deliver their school's test materials to DRC. Only enough materials As soon as the majority of a school's testing population has completed an assessment, School Assessment

- If materials are returned to DRC from the district, School Assessment Coordinators are responsible for communication and a predefined process are essential to the success of this initiative. initiating the early return of answer booklets via an expedited return-plan established by the district. Clear
- for packaging and shipping the materials directly to DRC. If materials are returned to DRC directly from the school, School Assessment Coordinators are responsible
- All secure materials—test booklets, answer booklets, large-print booklets, Braille booklets, and Spanish -must be returned to DRC
- The typed/word-processed output must be securely destroyed after it has been transcribed into an answer Computer files from students who used a keyboarding accommodation must be permanently deleted
- information on how to handle Test Tickets can be found in the eDIRECT Test Setup User Guide. If a student is testing online, Test Tickets need to be returned to the School Assessment Coordinator. More
- accommodate new enrollments and make-up sessions. This remaining box of answer booklets should established testing window. Therefore, schools must retain enough testing materials at the school to PDE's policy states that the test must be administered to any student who enrolls during the PDEbe forwarded to the District Assessment Coordinator on the last day of the testing window.

1. MATERIALS ACCOUNTABILITY FORM

Each district is responsible for completing the Materials Accountability Form in eDIRECT. This form may be updated throughout the testing window, but it MUST be completed by the end of the testing window when all materials have been returned to DRC.

on the left menu. Then select the appropriate Administration and click Show. the Materials Accountability Form. The District Assessment Coordinator is responsible for assigning permissions to School Assessment Coordinators, as needed. After logging in, click on Accountability Form under the Materials tab The Materials Accountability Form can be found in eDIRECT. All District Assessment Coordinators have access to

- School Assessment Coordinators are accountable for returning all booklets that were received. Any missing The "Returned to DRC" column must be completed for all listed materials. District Assessment Coordinators and materials and/or materials that are returned late are considered a breach of test security.
- Materials received through an Additional Material Request should be included in the "Returned to DRC" columns
- V All discrepancies between the number of booklets shipped and the number of booklets returned to DRC should be documented in the "Record reasons for discrepancies here" portion of the form

Spanish) will not complete a Materials Accountability Form. Note: Sites that are only testing students online and did not order accommodated forms (e.g., Braille, large-print, or

2. PACKAGING MATERIALS FOR RETURN TO DISTRICT

for return to their District Assessment Coordinator. The following process should serve as a guideline for School Assessment Coordinators when packaging materials

- **=** affixed to the front cover of the answer booklet. Verify that all <u>used</u> answer booklets have a barcode label (District/School, Student Precode, or Do Not Score)
- 7 the form-appropriate scannable answer booklet. Verify that all responses for participating students using accommodations have been properly transcribed into
- $\underline{\omega}$ After inventorying all materials, use the online Materials Accountability Form to record the number of answer booklets and test booklets your school is returning. This form is available in eDIRECT. (See page 37.)
- 4 Separate all answer booklets from test booklets. Make sure there are no answer booklets "tucked" inside a test
- and school reporting. "Tucked" answer booklets may not be detected during booklet check-in at DRC, which could impact student
- 5 Place all answer booklets in the boxes that you saved from DRC's original shipment.
- DRC does not require that the answer booklets are sorted by class or grade within the school boxes, only that answer booklets are boxed separately from test booklets.
- Make-up materials can be returned in one box if the total quantity for all subjects is small enough to fit into
- 9 Immediately return the boxes of answer booklets to your District Assessment Coordinator, retaining enough materials at the school through the end of the testing windows to account for make-ups and new enrollments.
- 7 Box all test booklets and unopened packs of shrink-wrapped materials separately from the answer booklets in the remaining boxes that you saved from DRC's original shipment.
- <u>∞</u> Send all the Test Security Certifications for the School Assessment Coordinator, Principal, Test Administrators, Administrator for filing. Do not return the Certifications to DRC. Proctors, and any other individuals to the District Assessment Coordinator for delivery to the Chief School
- 9 Retain the electronic or hard copies of the PAsecureID lists. These lists of PAsecureIDs should remain on file with the school/district for three years. Do not return these lists to DRC.
- 10) Do not return the Handbook for Assessment Coordinators, the Directions for Administration Manuals, or scratch paper. Please follow instructions from the District Assessment Coordinator for the destruction of these materials

3. PACKAGING MATERIALS FOR RETURN TO DRC

steps described in the preceding section. return to DRC. For schools that return materials directly to DRC, the coordinator is also responsible for the packaging The following process should serve as a guideline for <u>District Assessment Coordinators</u> when packaging materials for

- = Condense school boxes whenever possible. DRC does not require that the assessment booklets are sorted by school within the district boxes, only that the answer booklets are boxed separately from the test booklets.
- 7 Send all the Test Security Certifications to the Chief School Administrator for filing. Do not return the Certifications
- $\underline{\omega}$ and unopened packages do not require plastic bags and can be placed directly into the DRC box. booklets have been placed into a DRC Return Shipment Bag, place the filled bag into a DRC box. Test Booklets of the plastic ties provided. All answer documents must be placed into a DRC Return Shipment Bag. After the Place all answer documents into one of the protective DRC return shipment bags. Seal the bag tightly using one
- 4 Use filler (e.g., crumpled paper or bubble wrap) to make sure that test materials do not shift during transport

- 5 Close the boxes by folding the flaps to cover the previous shipping labels. The A and B printed on the flaps should be exposed.
- 9 of tape across both the top and the bottom of the box to ensure the contents are secure during shipping. Securely tape all boxes using heavy-duty shipping tape. It is recommended that you use at least three strips
- ٧ in the same box. Use both types of DRC Return Shipment Labels when returning answer booklets and test Affix a DRC Return Shipment Label (Answer Booklets or Test Booklets and Unopened Packages) to the top of the booklets in the same box. box flap labeled A. For sites with very small quantities, both answer booklets and test booklets can be returned

Note: DRC Return Shipment Labels are not subject specific and can be used to return any PSSA materials.

<u>®</u> preprinted on the label. Affix a UPS Return Shipment Label to the top of the box flap labeled B. DRC and district addresses have been

Note: UPS RS Labels are not subject specific and can be used to return any PSSA materials

- 9 Record the UPS Tracking Number for each package, noting the assessment for which they were used. Please keep the number(s) for future reference to document the materials returned to DRC
- 10) Keep the boxes in a secure location until they are given to the UPS driver.
- 11) Schedule a pick-up with UPS as soon as schools begin the early return of answer booklets
- 12) Schedule a pick-up with UPS for the test booklets to occur no later than three business days after the close of each assessment window.
- English Language Arts, by April 22, 2015
- Mathematics, by April 29, 2015
- Science, by May 6, 2015
- ALL Make-Up Materials, by May 8, 2015

Important Note: All PSSA answer booklets must arrive at DRC by the final processing date to be included in 2015 reporting. UPS pickups must occur in accordance with the established timelines, and absolutely no later than May 8 to ensure that your materials arrive prior to the close of answer booklet processing and accountability reporting. The exclusion of any students in accountability reporting because of an LEA's (May 13.) Failure to return your PSSA answer booklets in the required timeline can negatively affect PSSA Pennsylvania Department of Education. failure to return answer booklets within the established timeline will be reported and researched by the

If the district office does not have a daily, scheduled UPS pickup, call UPS at 1-866-857-1501 to arrange for day prior to the day on which you will ship your materials. materials pickup. Specify that you are using pre-paid, UPS ground return service labels. You must call at least one

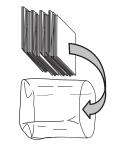
Please refer to the diagram below for further clarification on how to package return materials to DRC

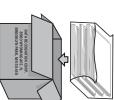
BAGGING, BOXING, PACKING, LABELING, AND TAPING INSTRUCTIONS

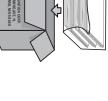
After verifying the return of each school's materials, use this checklist to prepare each box for shipment to DRC IMPORTANT: Use this checklist <u>in addition to</u> the step-by-step instructions for packaging secure answer and test booklets.

Boxes containing answer booklets









BROOKLYN PARK, NN 5544

Answer booklets should be placed into a DRC return shipment bag. Seal the DRC return shipment bag and place it in the DRC box. This includes used and unused Answer Booklets.

Test Booklets and unopened packages for all subjects do not need to be returned in a DRC return shipment bag. These packages can be placed directly into the DRC box.

Boxes of answer booklets do not need to be sorted by school, subject, or class. Condense the answer booklets to fill the boxes to the top. Fill any empty space in the boxes with crumpled paper or bubble during transit. wrap to ensure that test material does not shift

Paper





Fold the flaps with old shipping labels first to expose the A and B flaps.



Affix a DRC return label of the appropriate color to flap A and verify that each label has the correct district/school name and address. Boxes containing answer booklets should have a **lilac** label; boxes containing test booklets and unopened packages should have a **white** label



Affix a UPS label to flap B

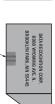
Part VIII

Tape boxes securely by using three (3) pieces of packing tape on **BOTH** the top and bottom. Overlap the tape, and make sure it wraps around the sides at least 2 inches.





Bottom





Wrap tape 2" on sides

Appendix A:

Information for Parents or Guardians



Dear Parent/Guardian:

contained in the PSSA and Keystone Exams is copyrighted property of the Commonwealth of Act may include the cost of replacing the compromised test item(s) or fines of no less than \$750 up to \$30,000 for a single violation. 17 U.S.C. \$101 et seq. photograph, is a violation of the federal Copyright Act. Penalties for violations of the Copyright Pennsylvania. Copying or duplicating the material from the assessment, including the taking of a compromised. Not only is it expensive to replace a compromised test item, the material and instantly share photographs, confidential and secure test materials can be easily In an era of cell phones, smartphones and other electronic devices which can easily photograph

administration of the PSSA or Keystone Exams will result in certain consequences. materials. her know that the possession and/or use of a cell phone or other electronic device during the the administration of the PSSA or Keystone Exams. Please speak with your child and let him or photograph or duplicate test materials, access the internet and/or communicate with others during iPads, iPods, tablets, camera-ready devices, and any other electronic device which can be used to test sites. Electronic devices include cell phones, smartphones, E-readers, Nooks, Kindles, Department of Education requires schools to set rules and take certain steps to protect test In order to ensure reliable test results and to avoid the cost of replacing test items, the One step or rule required in all schools is that electronic devices are not permitted at

of Education holds the copyright to all material contained within the PSSA and Keystone Exams, and the Department of Education's requirement that the student's test will not be scored and the possession during the administration of the PSSA or Keystone Exams, you will be contacted by the Pennsylvania Department of Education will be contacted. is refused, the device will be held by the school staff and, because the Pennsylvania Department for permission to search other functions of the electronic device. If a photograph of the PSSA or by school staff and the device's stored photographs will be searched. School staff will also ask student will be required to retake the entire exam. In addition, the electronic device will be held the school. Students that ignore this directive will be subject to the school's discipline policy If a student is discovered using and/or having a cell phone or other electronic device in his or her Keystone Exam is discovered or if permission to search other functions of the electronic device

used and/or had a cell phone or other electronic device in his or her possession during the will be invalidated. administration of the test, the school's discipline policy will be followed and the student's scores If, after testing is complete and test materials have been returned, it is discovered that a student

Frequently

Asked Questions

Information for Parents or Guardians

Pennsylvania System of School Assessment (PSSA)

English Language Arts Assessment, April 13–17, 2015 Mathematics Assessment, April 20–24, 2015 Science Assessment, April 27–May 1, 2015



GENERAL INFORMATION ABOUT THE PSSA Which schools participate?

All school districts and charter schools participate in the assessments. Nonpublic schools may also participate on a voluntary basis.

Which students take the assessments?

Except for a very few students who meet specific criteria for participation in an alternate assessment, all students are included in the assessments as outlined below:

ELA & Mathematics – Grades 3, 4, 5, 6, 7, and 8 Science – Grades 4 and 8

Who decided what the assessment should measure?

Groups of educators from all levels of education in Pennsylvania chose the areas of knowledge upon which the assessment is based. The groups included teachers, supervisors, curriculum directors, and college specialists. They also reviewed, edited, and approved the test items.

Who administers the assessment?

Each school chooses the person(s) who will administer the assessment. In most cases, these are the students' teachers, who are often helped by the principal or a guidance counselor.

How are the results reported?

Two copies of the individual student report for all assessments will be sent to the school districts and charter schools for distribution to parents, teachers, guidance counselors, and/or principals. The state will not receive any report with individual names included.

School-level reports will be used for curricular and planning purposes. School districts and charter schools may publish the results of PSSA testing for each school. The state will also release school-by-school assessment data.

May parents see the assessments?

Parents and guardians may review the assessments by making arrangements with the School Assessment Coordinator once the assessments arrive at the school. Confidentiality agreements must be signed, and no copies of the assessments or notes about assessment items will be permitted to leave the school.

If after reviewing the test parents/guardians find the test to be in conflict with their religious belief and wish their student (s) to be excused from the test, the parents/guardians must provide a written request that states the objection to the Superintendent or Chief Academic Officer.

INFORMATION ABOUT THE ENGLISH LANGUAGE ARTS ASSESSMENTS (grades 3–8)

How long does the assessment take?

The entire English Language Arts assessment takes approximately three to four hours to complete. Your school district should inform you about the assessment schedule.

What does the assessment include?

Each student completes four sections of questions for the English Language Arts assessment. Some portions will be the same for all students, and some will consist of different groups of questions.

What types of questions are on the assessment?

writing prompt, short-answer questions (grade 3 only), a text and use evidence from the passage to compose the text-dependent analysis question, students analyze compose a brief response to support their answer. For grades 6–8). Short-answer questions require students to narrative, informative/explanatory, or argumentative in informative/explanatory, or opinion in grades 3-5 and a response using one of three modes (narrative, only). The writing prompt requires students to compose and text-dependent analysis questions (grades 4-8 students to compose their responses. These include a a multiple-choice question, the correct answer is chosen choice, selected-response, and constructed-response. In Students respond to three types of questions: multiplefor each part. Constructed-response questions require two parts, and students select one or more answers from four options. Selected-response questions have

How are written responses to open-ended items scored?

The written responses for English Language Arts are scored by evaluators trained in applying a predetermined scoring system. For short-answer questions, scores are based on content only. Spelling and

punctuation are not included as part of the scoring process. For writing prompts, scores are determined using a holistic scoring guideline that includes composition skills as well as conventions. Responses to text-dependent analysis questions are scored based on content and conventions.

What is assessed in English Language Arts?

The English Language Arts assessment addresses six major reporting categories as well as two text types. Students respond to standalone multiple-choice items assessing language and a writing prompt. Additionally, students read a number of passages from literature and informational genres and respond to questions about these passages that indicate both comprehension and reading skills and their analysis and interpretation of different types of texts.

INFORMATION ABOUT THE MATHEMATICS ASSESSMENT (grades 3–8)

How long does the assessment take?

The entire mathematics assessment takes approximately three to four hours to complete. Your school district should inform you about the assessment schedule.

What do the assessments include?

Each student completes three sections of questions for the mathematics assessment. Some portions will be the same for all students, and some will consist of different groups of questions.

What types of questions are on the assessments?

Students respond to two types of questions: multiple-choice and open-ended. In a multiple-choice question, the correct answer is chosen from the four presented options, while open-ended questions require students to compose their responses. Open-ended questions generally require students to provide detail in support of their answers (such as showing or describing the steps performed to complete a calculation).

How are written responses to open-ended items scored?

The written responses for mathematics open-ended items are scored by evaluators trained in applying a pre-determined scoring system. In mathematics, score are based on content only. Spelling and punctuation are not included as part of the scoring process.

What is assessed in Mathematics?

The mathematics assessment addresses five major reporting categories across four clusters. The reporting categories assessed and the proportion of items in each reporting category vary by grade level. As a part of the assessment of Cluster A, Numbers and Operations, students in grades 4-8 respond to a section of items

in which a calculator is not permitted. Open-ended items require the students to show all of their work (calculations, graphs, drawings, etc.) and/or to explain in writing how they solved the problems.

INFORMATION ABOUT THE SCIENCE ASSESSMENT (grades 4 and 8)

How long does the assessment take?

The entire science assessment takes approximately two to four hours to complete. Your school district should inform you about the assessment schedule.

What does the assessment include?

Students in grades 4 and 8 complete two sections of questions for the science assessment. Some portions will be the same for all students, and some will consist of different groups of questions.

What types of questions are on the assessment?

Students respond to two types of questions: multiple-choice and open-ended. In a multiple-choice question, the correct answer is chosen from the four presented options, while open-ended questions require students to compose their responses. At grade 8, the science assessment also includes science scenarios.

What is a science scenario?

A science scenario contains text, graphics, charts, and/ or tables, and uses these elements to describe the results of a class project, an experiment, or other similar research. Students use the information found in a science scenario to answer multiple-choice questions.

How are the written responses to open-ended items scored?

The written responses for science open-ended items are scored by evaluators trained in applying a pre-determined scoring system. In science, scores are based on content only. Spelling and punctuation are not included as part of the scoring process.

What is assessed in science?

The science assessment addresses the four major reporting categories: The Nature of Science, Biological Sciences, Physical Sciences, and Earth and Space Sciences. The proportion of items devoted to each reporting category varies within a grade level. Each reporting category includes certain Assessment Anchors and Eligible Content.

Appendix B:

Ethical Standards of Test Administration

DEPARTMENT OF EDUCATION The state of test(open-ended) items. The test that models the state of test that models the state of test that models the state of the confidential and state of the confidential and state of the calculators on. The test that models the state of the confidential and state of the calculators on. The test that models the used of the calculators of the calculators

ETHICAL STANDARDS OF TEST ADMINISTRATION

Before Test Administration:

DO...

- and how it will be administered, and how the results will be used Communicate to students, parents, and the community what the test does and does not measure, when
- Maintain a positive attitude about testing.
- Teach to the Pennsylvania Core Standards.
- Review skills, strategies, and concepts previously taught.
- taking skills include responding to both multiple-choice and constructed-response (open-ended) items. Integrate teaching of test-taking skills with regular classroom instruction and assessment. Examples of test-
- testing mode (online) and its tools. Be sure that students testing online have prior experience with the online practice test that models the
- Item and Scoring Samplers and General Scoring Guidelines. Use any test preparation documents provided by the Pennsylvania Department of Education including
- Read the Directions for Administration Manual.
- Follow test security and administration guidelines.
- V the Test Administrator. group of students. If local circumstances do not allow that option, assign a Proctor in the classroom with Consider having a teacher, other than the teacher of record, administer the assessment to a particular
- Schedule the assessment.
- > Include all students in the appropriate assessment.
- V proprietary nature of the documents. of the procedures to follow. This training includes understanding test security and the confidential and Attend the annual training for the administration of the assessments in order to be properly informed
- V to do in the event of a fire alarm, bomb threat, HAZMAT incident, unruly student, etc. Make contingency plans for unexpected disruptions during testing. All school personnel must know what
- Remove or disable monitoring software (spyware) from computers, iPads, and Chromebooks to be used
- Cover or remove from classrooms or hallways all instructional materials that could aid students in answering
- Make sure the testing environment is comfortable and has appropriate lighting
- Ensure students are seated at the correct workstation for an online test administration.
- Review the Code of Conduct for Test Takers with students.
- are used for a test. Review the Calculator Policy. Clear the memory and all stored programs before and after the calculators
- requirements of the Calculator Policy. Make sure calculators (other than calculators provided within the online testing engine) meet the
- Language Learner being assessed. Know the required accommodations for each student with an IEP or 504 Service Plan and for each English
- V cheating and recording test questions) Review with students the possible local sanctions the district will enforce for student misconduct (e.g.,

Appendices



DO NOT...

- test question and then return and erase all but one response. Teach students a test-taking technique that would require them to bubble more than one response to a
- any of the accommodations guidelines documents. Knowledge or review of test content is not necessary Review student test booklets except for purposes as stated in the Directions for Administration Manual and for valid test administration and is prohibited.

Note: Interpreters may have access to test materials three days prior to test administration to prepare for accurate interpretation of the test.

- Reveal any part of secure copyrighted tests to students.
- Copy or otherwise reproduce any part of secure tests.
- Review and/or provide answers to test questions to students.
- Possess unauthorized copies of state tests.
- Assist in, direct, aid, counsel, encourage, or fail to report any of the actions prohibited in this section.

During Test Administration:

DO...

- Follow test security and administration guidelines.
- Continually move around the testing site to ensure students are adhering to the instructions given.
- coaching (see DO NOT list on the next page). they are working. Be cautious in redirecting or assisting students that you are not violating test security by bubbling in answers in the correct section of the answer sheet for the section of the test booklet in which During active monitoring ensure that students are working in the correct section and that they are
- V includes those students who need additional time to complete any test session. Make sure students are supervised at all times during testing and all breaks. This supervision requirement
- V Escort all students and carry all secure testing materials to alternate testing sites for extended time, etc.
- > Maintain a positive attitude about testing.
- V Make sure that sections/modules are started and completed in the same day.
- Account for all test booklets and answer booklets and keep them in a secure location
- V Keep voice inflections neutral if an allowable or required accommodation is to read portions of the test
- Minimize distractions, including intercom announcements.
- V Place a "Testing—Do Not Disturb" sign on doors where testing is occurring
- V testing site Collect cell phones, smart phones, and other unauthorized electronic devices as students enter the
- V Pennsylvania Department of Education. Report testing irregularities/security breaches to the School Assessment Coordinator, principal, or the

DO NOT...



- Leave students unattended with testing materials or permit any student to leave the testing site with testing materials for any reason.
- Permit students to look ahead to another section or module of the test before being instructed to do so, or allow students to look back in a test booklet once a test section or module has been completed.
- Discuss, disseminate, or otherwise reveal contents of the test to anyone.
- V and the materials must be counted and collected by the School Assessment Coordinator immediately after Possess secure test materials at any time other than during the actual administration of the test. Test the testing session ends each day. Administrators should be given the secure materials immediately prior to the administration of the test,
- V second look). This prohibition includes, but is not limited to, a Personal Care Aid (PCA), Therapeutic Support Staff (TSS), or any other one-on-one aide who is assigned to a student. review rough drafts, or give feedback of any kind including indicating to students any items that need a Coach or provide feedback to students (e.g., answer any questions pertaining to the content of the test,
- Define or clarify a word.
- VV Read aloud any portion of the Literature Assessment.
- \bigvee Read aloud the passages, multiple-choice questions or answer choices, or short-answer questions in Sections 2, 3, or 4 of the PSSA English Language Arts assessment.
- V Read aloud any part of a mathematics item that will cue the correct answer or provide a hint for the test
- up sessions for absences and for students who go to another testing site for extended time. Return a test booklet to any student after it has been turned in to the Test Administrator except for make-
- student to do so. Alter, influence, or interfere with a test response in any way, fill in any unanswered item, or instruct the
- V Assist in, direct, aid, counsel, encourage, or fail to report any of the actions prohibited in this section

After Test Administration:

DO...

- Follow test security and administration guidelines
- Maintain a positive attitude about testing.
- Collect all scratch paper or rough drafts at the end of each test session, and return them to the School Assessment Coordinator to be destroyed
- Return all secure testing materials to the School Assessment Coordinator immediately after the testing session each day.
- Account for all test booklets and answer booklets daily, and keep them in a secure location
- Braille or large print) has been used or when a student's test booklet has been damaged Transcribe exact student responses, including incorrect responses, when an alternate test format (such as
- Clear the memory of calculators after each testing session.
- Pack and ship the secure testing materials to the testing contractor.
- Sign the appropriate Test Security Certification, and return it to the appropriate individual as directed.

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Appendices



DO NOT...

- Discuss, disseminate, or otherwise reveal the contents of the test to anyone.
- item or any section of a secure test in any manner inconsistent with the instructions provided by and Keep/save, copy, reproduce, or use any test, test item, specific test content, or examinee responses to any through the Pennsylvania Department of Education.
- VV Review student responses in the answer booklet.
- Review test booklets containing the test items.
- V student to do so. Alter, influence, or interfere with a test response in any way, fill in any unanswered item, or instruct the
- Discuss or provide feedback regarding test items.
- VV Copy or reproduce any portion of the secure test materials or provide answer keys
- VV Erase or change student answers.
- inaccurate reports, or unsubstantiated claims. Make false or misleading statements about assessment results, including inappropriate interpretations,
- Erase stray marks or darken bubbles.
- Assist in, direct, aid, counsel, encourage, or fail to report any of the actions prohibited in this section.

Appendix C:

Pennsylvania Calculator Policy



PENNSYLVANIA CALCULATOR POLICY

these programs prior to the assessment. In addition, the memory must be cleared on the calculator following where the calculator is permitted, the student must adhere to the guidelines listed below. It is incumbent each test session of the assessment. including making sure calculators have no programs stored in their memory other than those that are factory upon the School Assessment Coordinator to ensure that all calculator policies are implemented and followed, If a student chooses to use a calculator (other than the online options) on the Keystone Exams or PSSA in sections installed. Please note that if a student wants to restore the deleted programs, the student will need to back up

The following are **not** permitted for the PSSA or Keystone Exams:

- Noncalculators such as cell phones, smart phones, PDAs, laptops, tablets, pocket organizers, etc.
- or wireless capabilities are disabled Calculators with infrared, Wi-Fi, Bluetooth, or other beaming or wireless capabilities, unless the beaming
- Calculators with QWERTY keyboards, typewriter-like keyboards, or keypads (e.g., Dvorak)
- Calculators with built-in Computer Algebra Systems (CAS)
- Calculators that make noise, have paper tape, need to be plugged in, or talk; these specific calculators can only be used as a required accommodation as stated in the Accommodations Guidelines
- Calculators shared by students during a test session
- Any and all nonfactory programs or information stored in the calculator

Exams. Please note that as technology changes, this policy may also change. exhaustive list of specific calculators, devices, or technologies that cannot be used on the PSSA or Keystone This calculator policy is intended to be a general description of what is not allowed. It is not meant to be an

Appendix D:

Code of Conduct for Test Takers



CODE OF CONDUCT FOR TEST TAKERS

DO...

- Get a good night's sleep.
- Eat a good breakfast.
- Listen to, read, and follow all directions given.
- Ask questions if you do not understand the directions.
- to read any open-ended items and writing prompts carefully before responding. Read each question carefully, especially multiple-choice items that ask for the "best answer." Also, be sure
- Be careful when marking your answers so that you do not skip spaces or fill in the wrong sections. Make sure to completely fill in the bubble for the answer you select and erase completely any answers you change.
- Keep your eyes on your own test.
- Try to answer each test item.
- Check that you have completed all the test items in the test section before closing your test booklet or submitting your final responses online.
- Report any suspected cheating to your teacher or principal.

DO NOT...

- Bring notes with you to the test
- Bring any electronic devices (e.g., cell phones, smart phones, etc.) other than an approved calculator, if applicable, to the test.
- Share a calculator with others.
- answers. Mark only the bubble for the one correct answer you have chosen. Use the bubbles in the answer booklet to either eliminate possible incorrect answers or possible correct
- Talk with others about questions on the test during or after the test.
- Take notes about the test to share with others.
- Leave an online test session until the session is complete or until instructed to do so

Appendix E:

PSSA Test Security Certifications

seoibneqqA

2015 PSSA Test Security Certification

(District Assessment Coordinator)

AUN:	School:_	District:_



Maintaining the security and integrity of all assessment materials, preventing any dishonest or fraudulent behavior in the administration and handling of the assessment, and promoting a fair and equitable testing environment are essential in order to obtain reliable and valid student scores. In that regard, I certify the following:

owned by the Pennsylvania Department of Education. These individuals were made aware that they were neither to review, discuss, disseminate, describe, or otherwise reveal the contents of the assessment to anyone nor were they to remove any assessment materials from the school building. They were also made aware that they were not to keep, copy, reproduce, release, secure assessment in any manner that is inconsistent with the instructions provided by or through the Pennsylvania Department or use any assessment, assessment question, specific assessment content, or examinee response to any item or any section of the to any assessment materials were informed that the assessment materials are secure, confidential, and proprietary documents assessment, all individuals involved in the handling and/or administration of the assessment and all individuals who had access Pennsylvania State Test Administration Training and all School Assessment Coordinators were trained on the Test Accountability and Security information contained in the *Handbook for Assessment Coordinators*. Furthermore, prior to the administration of the to the administration of the assessment, any individual who administered and/or proctored the assessment completed administration of the assessment received instruction regarding test security protocols and procedures. Additionally, prior Prior to the administration of the assessment, all individuals involved in the handling of assessment materials and/or the

Prior to the administration of the assessment, all individuals involved in the handling and/or administration of the assessment received instruction that all assessment materials, including all assessment booklets and other materials containing secure assessment questions and student responses, were to be kept secure and precisely accounted for in accordance with the individuals who assisted in the administration of the assessment and all individuals who had access to the secure assessment materials were made aware that they were not to in any manner alter or cause the alteration of any examinee response, assessment booklet, or papers used by examinees. procedures specified in the *Handbook for Assessment Coordinator*s. Further, prior to the administration of the assessment, all

Handbook for Assessment Coordinators. All assessment materials received from DRC have been used and secured in accordance with the directions contained in the

I have not reviewed, discussed, disseminated, described, or otherwise revealed the contents of the assessment to anyone. I am not aware that any individual has reviewed, discussed, disseminated, described, or otherwise revealed the contents of the assessment to anyone. I have neither removed any assessment materials from the school building unless I was specifically homebound instruction authorized to administer the assessment to a student on homebound instruction nor am I aware that any individual has removed I have not reviewed, discussed, disseminated, described, or otherwise revealed the any assessment materials from the school building unless specifically authorized to administer the assessment to a student on

any examinee with an answer to an assessment question or in any way influenced an examinee's response to any assessment question. I have not in any manner altered or caused the alteration of any examinee response, assessment booklet, or papers used by examinees. I am not aware that any other individual has altered or has caused to have altered any examinee response reproduced, released, or used any assessment, assessment question, specific assessment content, or examinee response to any item or any section of the secure assessment in any manner that is inconsistent with the instructions provided by or through the Pennsylvania Department of Education. I have neither provided any examinee with an answer to an assessment question I have not kept, copied, reproduced, released, or used any assessment, assessment question, specific assessment content, or examinee response to any item or any section of the secure assessment in any manner that is inconsistent with the instructions provided by or through the Pennsylvania Department of Education. I am not aware that any individual has kept, copied, or in any way influenced an examinee's response to any assessment question nor am I aware that any individual has provided

invalidation of assessment results, professional discipline, and/or criminal prosecution. of <u>all</u> secure assessment material that was received from DRC and that any breach in assessment security could result in the I understand that I am responsible for the secure administration of the assessment in my school district and for the return

I understand that false statements herein are made subject to the penalties of 18 Pa.C.S. § 4904

Assessment Coordinator Name	
Assessment Coordinator Signature	
Date of Signature	

Appendices

2015 PSSA Test Security Certification

(School Assessment Coordinator and Principal)

District:	
School:	



to obtain reliable and valid student scores. In that regard, I certify the following: administration and handling of the assessment, and promoting a fair and equitable testing environment are essential in order Maintaining the security and integrity of all assessment materials, preventing any dishonest or fraudulent behavior in the

materials from the school building. They were also made aware that they were not to keep, copy, reproduce, release, or use any assessment, assessment question, specific assessment content, or examinee response to any item or any section of the secure assessment in any manner that is inconsistent with the instructions provided by or through the Pennsylvania Department of to the administration of the assessment, any individual who administered and/or proctored the assessment completed the Pennsylvania State Test Administration Training. Furthermore, prior to the administration of the assessment, all individuals involved in the handling and/or administration of the assessment and all individuals who had access to any assessment materials were informed that the assessment materials are secure, confidential, and proprietary documents owned by disseminate, describe, or otherwise reveal the contents of the assessment to anyone nor were they to remove any assessment the Pennsylvania Department of Education. These individuals were made aware that they were neither to review, discuss, administration of the assessment received instruction regarding test security protocols and procedures. Additionally, prior Prior to the administration of the assessment, all individuals involved in the handling of assessment materials and/or the

assessment booklet, or papers used by examinees. materials were made aware that they were not to in any manner alter or cause the alteration of any examinee response, individuals who assisted in the administration of the assessment and all individuals who had access to the secure assessment procedures specified in the *Handbook for Assessment Coordinators.* Further, prior to the administration of the assessment, all assessment questions and student responses, were to be kept secure and precisely accounted for in accordance with the Prior to the administration of the assessment, all individuals involved in the handling and/or administration of the assessment received instruction that all assessment materials, including all assessment booklets and other materials containing secure

Handbook for Assessment Coordinators. All assessment materials received from DRC have been used and secured in accordance with the directions contained in the

I have not reviewed, discussed, disseminated, described, or otherwise revealed the contents of the assessment to anyone. I am not aware that any individual has reviewed, discussed, disseminated, described, or otherwise revealed the contents of the assessment to anyone. I have neither removed any assessment materials from the school building unless I was specifically student on homebound instruction. removed any assessment materials from the school building unless specifically authorized to administer the assessment to authorized to administer the assessment to a student on homebound instruction nor am I aware that any individual has

any other individual has altered or has caused the alteration of any examinee response in any manner. assessment question. I have not in any manner altered or caused the alteration of any examinee response. I am not aware that provided any examinee with an answer to an assessment question or in any way influenced an examinee's response to any question or in any way influenced an examinee's response to any assessment question nor am I aware that any individual has through the Pennsylvania Department of Education. I have neither provided any examinee with an answer to an assessment any item or provided by or through the Pennsylvania Department of Education. I am not aware that any individual has kept, copied, examinee response to any item or any section of the secure assessment in any manner that is inconsistent with the instructions I have not kept, copied, reproduced, released, or used any assessment, assessment question, specific assessment content, or any section of the secure assessment in any manner that is inconsistent with the instructions provided by or

I understand that I am responsible for the secure administration of the assessment in my school(s) and for the return of invalidation of assessment results, professional discipline, and/or criminal prosecution. secure assessment material that was received from DRC and that any breach in assessment security could result in the

l understand that false statements herein are made subject to the penalties of 18 Pa.C.S. § 4904

Pennsylvania Department of Education	Name
58	Signature
Handbook for Assessment Coordinators	Date of Signature

DRC Customer Service 1-800-451-7849

https://pa.drcedirect.com



2015 PSSA Test Security Certification

(Test Administrator and Proctor)

District:
School:
AUN:
Maintaining the security and integrity of all assessment materials, preventing any dishonest or fraudulent behavior in the administration and handling of the assessment, and promoting a fair and equitable testing environment are essential in order to obtain reliable and valid student scores. In that regard, I certify the following:
Prior to the administration of the assessment, I completed the Pennsylvania State Test Administration Training, and I understand that the assessment materials are secure, confidential, and proprietary documents owned by the Pennsylvania Department of Education.
I have not reviewed, discussed, disseminated, described, or otherwise revealed the contents of the assessment to anyone. I have not removed any assessment materials from the school building unless I was specifically authorized to administer the assessment to a student on homebound instruction. I have not kept, copied, reproduced,
released, or used any assessment, assessment question, specific assessment content, or examinee response to any item or any section of the secure assessment in any manner that is inconsistent with the instructions provided by or through the Pennsylvania Department of Education. I have not provided any examinee with an answer to an assessment question or in any way influenced an examinee's response to any assessment question. I have not in any manner altered or caused the alteration of any examinee response, assessment booklet, or papers used by examinees.
l understand that any breach in assessment security could result in the invalidation of assessment results, professional discipline, and/or criminal prosecution.
understand that false statements herein are made subject to the penalties of 18 Pa.C.S. § 4904.

Administrator/Proctor Name

Administrator/Proctor Signature

Date of Signature



2015 PSSA Test Security Certification

(General)

AUN:	School:	District:	

essential in order to obtain reliable and valid student scores. In that regard, I certify the following: in the administration and handling of the assessment, and promoting a fair and equitable testing environment are Maintaining the security and integrity of all assessment materials, preventing any dishonest or fraudulent behavior

Pennsylvania Department of Education. I understand that all assessment materials are secure, confidential, and proprietary documents owned by the

question. I have not in any manner altered or caused the alteration of any examinee response, assessment booklet, or papers used by examinees. with an answer to an assessment question or in any way influenced an examinee's response to any assessment response to any item or any section of the secure assessment in any manner. I have not provided any examinee reproduced, released, or used any assessment, assessment question, specific assessment content, or examinee to anyone nor have I removed any assessment materials from the school building. I have not kept, copied, I have neither reviewed, discussed, disseminated, described, or otherwise revealed the contents of the assessment

I understand that any breach in assessment security could result in the invalidation of assessment results, professional discipline, and/or criminal prosecution.

I understand that false statements herein are made subject to the penalties of 18 Pa.C.S. § 4904

Name	
Signature	
Date of Signature	

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Appendix F:

Parent Confidentiality Agreement



Parent Confidentiality Agreement

individual must attest to the following: any individual inspects a Pennsylvania System of School Assessment pursuant to 22 Pa. Code §§ 4.4 and 4.5, the In accordance with 22 Pa. Code § 4.4 and to ensure the security and confidentiality of the assessment, when

the assessment materials to anyone, including my own child(ren). Department of Education (PDE). Therefore, I agree not to discuss, disseminate, or otherwise reveal the content of assessment is of the utmost importance. I further understand that all PSSA, including the content contained in school year, I understand that I have the right to review the relevant PSSA and that maintaining the validity of the each test booklet and answer booklet, are the secure, propriety property of the Commonwealth of Pennsylvania, As a parent of a student who will sit for a Pennsylvania System of School Assessment (PSSA) during the current

I understand that violation of these terms could result in personal liability for damages caused by a breach of test security, including but not limited to liability and/or costs associated with any of the following: retesting students; replace compromised test materials; and investigations relating to the breach of test security. recalculating student/school/school district achievement data; developing/producing new test materials to

I further understand that false statements herein are made subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities).

|--|

HANDBOOK FOR ASSESSMENT COORDINATORS 2015



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toll-free 1-800-451-7849, by emailing pacustomerservice@datarecognitioncorp.com, or by faxing 1-763-268-3008 or The state assessment is administered by the Bureau of Assessment & Accountability, Pennsylvania Department of Education (PDE), 333 Market Street, Harrisburg, PA 17126-0333 [(717) 705-2343, fax (717) 783-6642, TDD (717) 783-8445]. The assessment contractor is Data Recognition Corporation (DRC). DRC can be reached by calling 1-763-268-3031.



Classroom Diagnostic Tools Interactive Reports 2014-2015

Updated October 2014



PA Customer Support Team Phone: 1-(888)-551-6935

Email: PAcustomerservice@datarecognitioncorp.com

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GENERAL INFORMATION

INTRODUCTION

strengths, weaknesses, skills, and knowledge throughout the school year to help guide instruction and the Keystone Exams and the Pennsylvania System of School Assessments. fully aligned with the Standards Aligned System (SAS). The assessments are based on content covered by remediation. The online assessments are available for students in grades six through high school and are The Classroom Diagnostic Tools (CDT) are a set of online assessments designed to measure specific student

instructional resources in SAS based on students' performances on the CDT. for individual students or groups of students. The Interactive Reports also provide dynamic links to A key component of the CDT is the Interactive Reports, which enable users to receive customizable reports

Interactive Reports, along with detailed instructions for using these reports once students begin to take the This User Guide provides information about how users of the CDT can acquire proper access to the CDT assessments.

KEY DATES

Description	Date Available
PA Online Assessments Software Update Release	August 18, 2014
Release of the CDT 2014–2015 Administration	August 25, 2014
Release of CDT 2014–2015 Interactive Reports	August 25, 2014
End of Test Window for 2014–2015	July 31, 2015

CUSTOMER SERVICE SUPPORT

or by email at PAcustomerservice@datarecognitioncorp.com. Assistance is available Monday through Friday (exclusive of holidays), 8:00 AM–5:00 PM Eastern Standard Time, by contacting Data Recognition Corporation's Pennsylvania Customer Service Team at (888) 551-6935

ACCESS INTERACTIVE REPORTS ON PA eDIRECT

site https://pa.drcedirect.com and requires a PA eDIRECT account. computer. The Interactive Reports system is accessed via the PA eDIRECT Web The Interactive Reports system is Web-based and uses the Web browser currently installed on your

information about which functionalities various users should have access to within the system. "Roles and Responsibilities" and Appendix C: "Manage PA eDIRECT Users" in this User Guide for detailed results after students have completed diagnostic testing using the CDT system. Please refer to Appendix B: how to use its components. The Interactive Reports system is for viewing and analyzing student assessment This section of the *User Guide* provides information about how to access the Interactive Reports system and

INSTRUCTIONS

Throughout the eDIRECT system there are built-in instructions for how to use the system. Anytime you see + Instructions, click on the plus sign, and the instructions will expand



GRID FUNCTIONALITY

header to re-sort the data based on the column selected, or by clicking on and dragging the column to a default settings. The information displayed in the grid can be rearranged either by clicking on a column new position so that the order in which the columns are displayed is changed Throughout the PA eDIRECT system, anytime a grid is displayed, it is organized and arranged based on



Sample eDIRECT Grid

MAP CONFIGURATIONS

based on the assessment that was administered. Please refer to the chart below for the available map The Interactive Reports are displayed as map configurations. A valid map configuration must be selected configuration for each assessment.

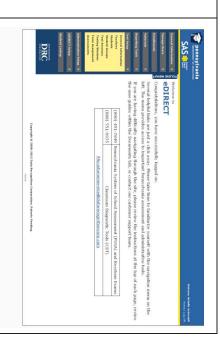
appropriate assessment by their grade level when they are uploaded (e.g., sixth grade students in Literature assessment in order to view the appropriate Lower Grades Map Configuration. will start with grade 6 items). However, students in Grades 3-5 should be assigned to the Grades 3-5 Note: When Test Sessions are created by content area and assessment, students are assigned to the

Content Area	Assessment	MAP Configuration
Mathematics	Math Grades 3-5	Mathematics Grade 3 Lower Grades
Mathematics	Math Grades 3-5	Mathematics Grade 4 Lower Grades
Mathematics	Math Grades 3-5	Mathematics Grade 5 Lower Grades
Mathematics	Mathematics	Mathematics Grade 5
Mathematics	Mathematics	Mathematics Grade 6
Mathematics	Mathematics	Mathematics Grade 7
Mathematics	Mathematics	Mathematics Grade 8
Mathematics	Algebra I	Algebra I
Mathematics	Algebra II	Algebra II
Mathematics	Geometry	Geometry
Literacy	Reading Grades 3-5	Reading Grade 3 Lower Grades
Literacy	Reading Grades 3-5	Reading Grade 4 Lower Grades
Literacy	Reading Grades 3-5	Reading Grade 5 Lower Grades
Literacy	Reading/Literature	Reading Grade 5
Literacy	Reading/Literature	Reading Grade 6
Literacy	Reading/Literature	Reading Grade 7
Literacy	Reading/Literature	Reading Grade 8
Literacy	Reading/Literature	Literature
Literacy	Writing Grades 3-5	Writing Grade 3 Lower Grades
Literacy	Writing Grades 3-5	Writing Grade 4 Lower Grades
Literacy	Writing Grades 3-5	Writing Grade 5 Lower Grades
Literacy	Writing/English Composition	Writing Grade 5
Literacy	Writing/English Composition	Writing Grade 6
Literacy	Writing/English Composition	Writing Grade 7
Literacy	Writing/English Composition	Writing Grade 8
Literacy	Writing/English Com position	English Composition
Science	Science Grades 3-5	Science Grade 3 Lower Grades
Science	Science Grades 3-5	Science Grade 4 Lower Grades
Science	Science Grades 3-5	Science Grade 5 Lower Grades
Science	Science Grades 3-5	Science Grade 3–5
Science	Science	Science Grade 5
Science	Science	Science Grade 6
Science	Science	Science Grade 6–8
Science	Science	Science Grade 7
Science	Science	Science Grade 8
Science	Science	Science High School
Science	Biology	Biology
Science	Chemistry	Chemistry

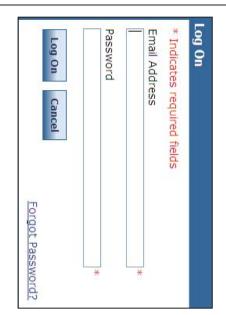
LOG ONTO EDIRECT

- Open your Internet Browser.
- 2. Enter the Web

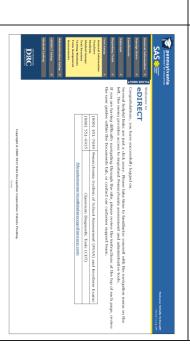
address: https://pa.drcedirect.com



- Click on the Log On link in the upper right-hand corner of the screen.
- 4. Enter your email address and password in the text boxes, and click on the **Log On** button. You will receive a temporary password via a system-generated email notifying you that your account has been activated. Use this temporary password to log on to the system for the first time. If you do **NOT** log on to the system within ten (10) days of receiving the temporary password, your account will be made inactive and the password will no longer work.



Once you have successfully logged on, a welcome/home screen will appear.



 Click on Reporting Tools in the menu on the left side of the screen and then Interactive Reports.



SELECTING SEARCH CRITERIA FOR INTERACTIVE REPORTS

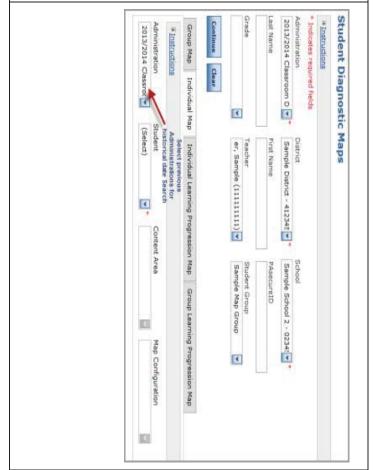
Map tab and a second set of search criteria. You can then select a specific student and a Map - getting to the interactive maps is now a two-step process. If you only select the required fields The existing Interactive Reporting navigation has changed due to the addition of the Historical Data Search Configuration, which enables you to view the Individual or Learning Progression Map for that student. (designated by a red asterisk) of Administration, District, and School, you will be brought to the Individual

Instructions for District Instructions for Teachers: Instructions for School Users: 2 button. button. Select the School. go directly to Continue button to Leave Student Group instead of Individual to Group Maps Group to go directly Select the Student Click on the Continue Select the School. Click on the Continue Individual Maps. blank and click on Grade * Indicates required fields **Student Diagnostic Maps** 2014/2015 Classroom Dia Administration Continue **■** Instructions Clear < District Sample District - 412345 * Teacher, One (342422342 First Name Sample School 1 - 01234 🕶 * Student Group Algebra I PAsecureID <

If you would like to change any of the search filters click on the Clear button.

the screen. eDIRECT menu to the left. To expand the eDIRECT menu, click on the Open Menu link on the upper left of Additional search criteria will expand to fill the screen when the Continue button is clicked and collapse the

- Once you click on the Continue button additional search criteria displays.
- Select the required fields of Student and Map Configuration to display Individual Map for current Administration.
- 3. To display Historical Data
 Search use drop down to
 select previous
 Administration for
 Student and Map
 Configuration selected.
- To go immediately to the Group Map select Teacher and Student Group in upper search criteria and click Continue.

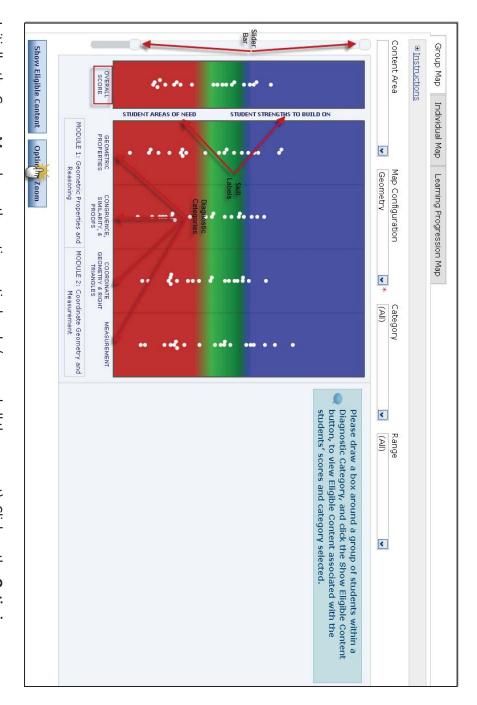


of this User Guide (page 3) for additional information. indicate there is no data available for the map configuration selected. See the "Map Configurations" section criteria for the Individual Map, Group Map, or Learning Progression Map a message will appear that will Note: If there is no data for the map after you click on the Continue button and select the additional

GROUP MAP

Need. descriptor correlates with a color range on the scale: Green/Blue = Strengths to Build On; Red = Areas of The Interactive Reports use colors to indicate relative Strengths to Build On and Areas of Need. Each

- Each white dot on the Group Map represents a single student score.
- Only students within the Student Group with scores will appear as white dots on the map
- All dots represent the most recent assessment score for each student within the Student Group
- during an individual student's test, please refer to the "Learning Progression Map" section of this scores within a Diagnostic Category. For a specific description of the Eligible Content assessed The Group Map is intended to provide general assessment information based on a group of student User Guide (page 15).



total scale is currently being displayed based on the search criteria selected. The area in between the slider bars indicates what portion of the **Zoom** button to zoom to the portion of the scale that includes the highest and lowest scores available Initially, the Group Map shows the entire vertical scale (zoomed all the way out). Click on the **Optimize**

area between the sliders is the area of the scale displayed on the map. *Slider Bar*—To adjust the map focus, use the upper and lower sliders on the bar to the left of the map. The

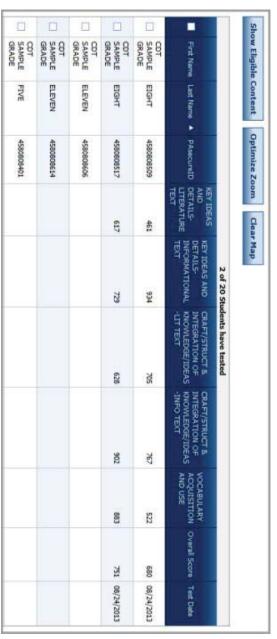
Skill Labels—These identify the area on the scale above which are Student Strengths to Build On and below which are Student Areas of Need.

Hover Over—Hover over a white dot to view a pop-up of the Name, PAsecureID, Test Date, and Score *Diagnostic Categories*—These appear below each of the columns at the bottom of the map

selected Student Group. Group Map Grid—This appears below the map and provides a complete list of the students within the

Fields included in the grid:

- First Name, Last Name, and PAsecureID
- Student scores within Diagnostic Categories
- Overall Score
- Test Date

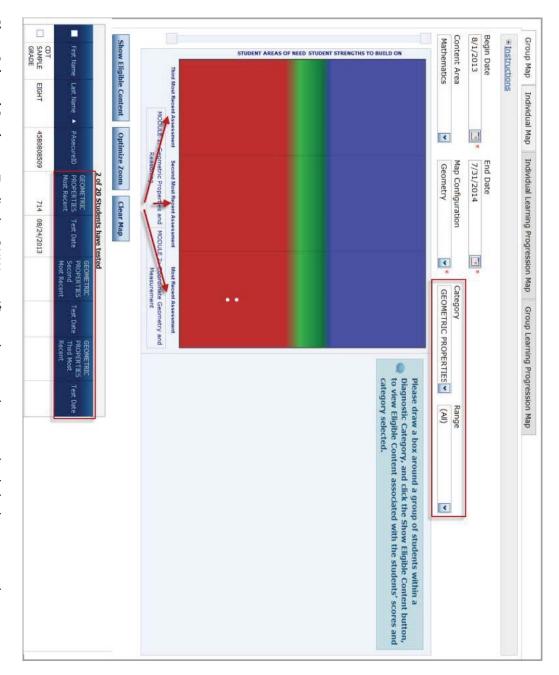


Group Map Grid

individual student across Diagnostic Categories. The selected student's dots will turn black and the student's information will be gray-highlighted in the Group Map Grid. Individual Student Select—Click on a white dot in any one of the columns to connect all of the scores for an

map to show student scores for a single category across multiple assessments Category Filter—Select a single Diagnostic Category from the Category drop-down menu at the top of the

scale, use the Range drop-down menu at the top of the map. Range Filter-–To select either the **Student Strengths to Build On** or **Student Areas of Need** portions of the



students will have the boxes next to their names checked in the Group Map Grid. will ONLY include the students who were represented as white dots in the previous map view. Those students in the Group Map Grid and click on the Show Selected Students button. The new map generated Show Selected Students—To display ONLY specific students on the map, check the box next to those

to a CSV-formatted table Export to CSV—Click on the Export to CSV button at the bottom of the Group Map Grid to export map data

will only appear in the PDF if individual students and Show Eligible Content have been selected. The image of the current view of the map, search criteria, and the Group Map Grid. Instructional Enrichment Export to PDF—Click on the Export to PDF button at the bottom of the Group Map Grid to export a PDF Instructional Enrichment will appear in the bar to the right of the map.

to a Zip File. Export to Zip—Click on the Export to Zip button at the bottom of the Group Map Grid to export map data

Grid to export the Individual Reports. Export Individual Reports—Click on the Export Individual Reports button at the bottom of the Group Map

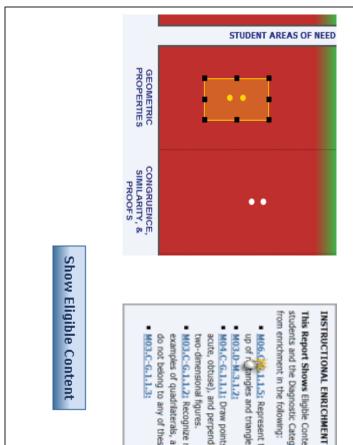


Group Map Grid

VIEW ELIGIBLE CONTENT & ACCESS SAS MATERIALS AND RESOURCES:

Multiple Students—To select multiple students within one of the Diagnostic Categories, follow these steps:

- Draw a box around a group of students by holding the mouse button down while dragging the cursor (pointer) across the dots to be selected.
- Click on the **Show Eligible Content** button.
- ω Ν The selected students' dots will turn yellow and will be yellow-highlighted in the Group Map Grid.
- students selected, will appear to the right of the map. A list of Eligible Content for the Diagnostic Category, associated with the range of scores for the
- ū Web site and gain access to all curriculum and resources available for the Eligible Content selected. Click on any one of the Eligible Content codes to launch into the Standards Aligned System (SAS)



students and the Diagnostic Category selected. These students may benefit This Report Shows Eligible Content associated with the scores of the

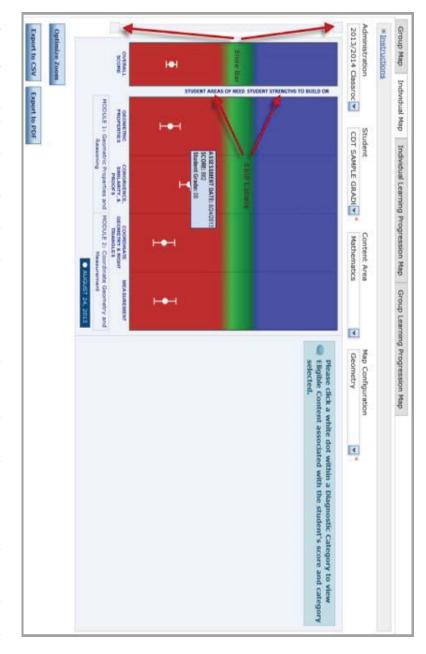
- M05.G 5.1.1.5: Represent three-dimensional figures using nets made up of nursungles and triangles.
- M04.C-G.1.1.1: Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in
- M03.C-G.1.1.2: Recognize rhombi, rectangles, and squares as examples of quadrilaterals, and/or draw examples of quadrilaterals that do not belong to any of these subcategories.

automatic sign-in to the Teacher Tool Box in SAS whenever the Interactive Reports system interfaces with address for eDIRECT is the same as the email address they use for their SAS account. This will allow **Note:** <u>Teachers with Standards Aligned System (SAS) accounts</u> should make sure their user account email

INDIVIDUAL MAP

- map configuration selected for an individual student. The Individual Map has the ability to show the three most recent assessments that apply to the
- the third most recent. A white dot indicates the most recent, a black triangle the second most recent, and a gray diamond
- are based on more test items than the scores in Diagnostic Categories. differences are significant. The standard error range of total scores is smaller because the scores range is used when comparing scores from different assessments to determine whether the The lines extending above and below each mark indicate the standard error. The standard error
- section of this User Guide (page 15). Eligible Content assessed during a student's test, please refer to the "Learning Progression Map" The Individual Map is intended to provide general Instructional Enrichment (a set of Eligible Content) based on a student's score within a Diagnostic Category. For a specific description of the

total scale is currently being displayed. Initially, the Individual Map shows the entire vertical scale (zoomed all the way out). Click on the Optimize based on the search criteria selected. The area in between the slider bars indicates what portion of the **Zoom** button to zoom to the portion of the scale that includes the highest and lowest scores available



the map will refresh. **Student Filter**—Click on the **Student** drop-down menu to select a student. When a new student is selected,

The area between the sliders is the area of the scale that is displayed on the map *Slider Bar*—To adjust the map's focus, use the upper and lower sliders on the bar to the left of the map

Skill Labels—These identify the area on the scale above which are Student Strengths to Build On and below which are Student Areas of Need.

Diagnostic Categories—These appear below each of the columns at the bottom of the map

Hover Over—Hover over the dot in the middle of the white, grey, or black line to view a pop-up of the Assessment Date and Score.

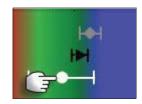
search criteria, and Instructional Strategies. Instructional Strategies will only appear in the PDF if Show Eligible Content has been selected. They will appear in the bar to the right of the map **Export to PDF**—Click on the **Export to PDF** button to export a PDF image of the current view of the map.

Export to CSV—Click on the Export to CSV button to export map data to a CSV-formatted table

VIEW ELIGIBLE CONTENT & ACCESS STANDARDS ALIGNED SYSTEM (SAS) MATERIALS AND RESOURCES:

Note: Eligible Content and links to SAS materials and resources are only provided in reference to a student's most recent test scores (white dots).

- 2. Click a white dot within one of the Diagnostic Categories.
- appear to the right of the map. The list of Eligible Content for the Diagnostic Category, associated with the student's score, will
- Click on any one of the Eligible Content codes to launch into the Standards Aligned System (SAS) Web site and gain access to all curriculum and resources available for the Eligible Content selected.



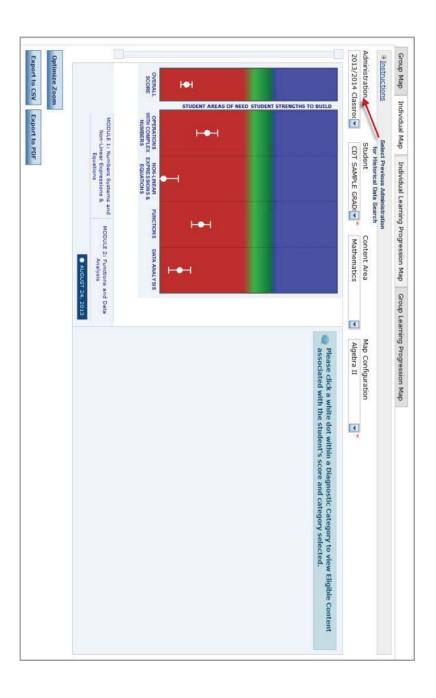
INSTRUCTIONAL ENRICHMENT

This Report Shows Eligible Content associated with the scores of the students and the Diagnostic Category selected. These students may ent in the following:

- number number pairs of integers and other rational numbers on a coordinate 1.1.3: Locate and plot integers and other rational in a horizontal or vertical number line; locate and plot
- M05.A-T.1.1.4; Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols.
 M06.A-R.1.1.5; Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve
- blems involving finding the whole, given a part and the
- M06.B-E.2.1.3: Solve real-world and mathem natical problems by
- writing and solving equations of the form x + p = q and px = q for cases in which p, q and x are all non-negative rational numbers. M06.A-N.2.1.1: Solve problems involving operations (+,-,x,+) with whole numbers, decimals (through thousandths), straight

HISTORICAL DATA SEARCH

- The Historical Data Search is only available for Individual Students and not Student Groups.
- criteria directly above the Individual Map. To see a student's scores from a previous Administration select the Administration in the search
- Populate the required fields of Student and Map Configuration
- If there is data available for a student in a previous Administration the Individual Map will display.
- the Map Configuration selected for that student. If there is no data available, a message will appear letting you know there is no data available for



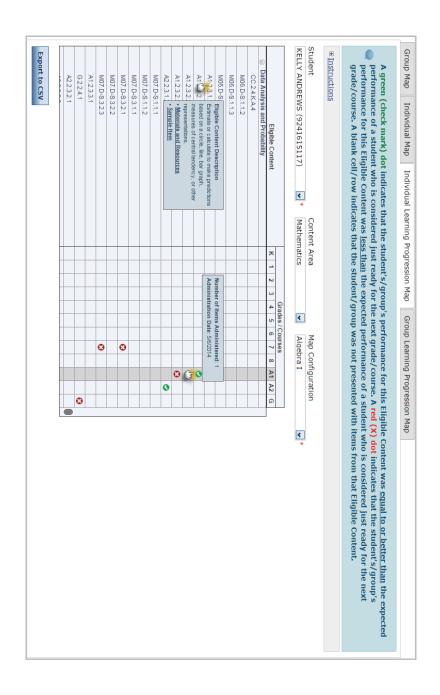
INDIVIDUAL LEARNING PROGRESSION MAP

- toward increased understanding over time based on Eligible Content. The Learning Progression Map is a graphical representation about how learning may typically move
- for a specific grade level or course. Each dot (green or red) represents the Eligible Content in a subject's domain and subdomain and
- The grade/course is highlighted based on the map configuration selected.
- subdomains that contain Eligible Content on which a student was assessed. The initial view of the Learning Progression Map will automatically expand all domains and
- All Learning Progression domains and subdomains can be expanded or collapsed
- Use the scroll bar to view all Eligible Content.

and was successful, possibly indicating "Student Strengths to Build On." A green dot indicates that the student was presented with at least one test item for the Eligible Content

was unsuccessful, possibly indicating "Student Areas of Need." A red dot indicates that the student was presented with at least one test item from the Eligible Content and

A blank square represents Eligible Content that is available, but the student was not presented with any test items from that Eligible Content.

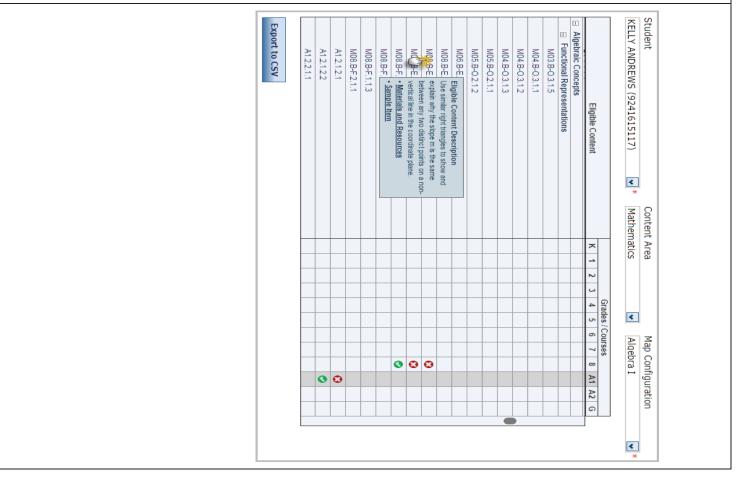


VIEW ELIGIBLE CONTENT & ACCESS SAS MATERIALS AND RESOURCES AND SAMPLE ITEMS:

- Hover over any of the Eligible Content until a pop-up appears.
- Use the mouse to move the pointer into the popup and click on the Materials and Resources

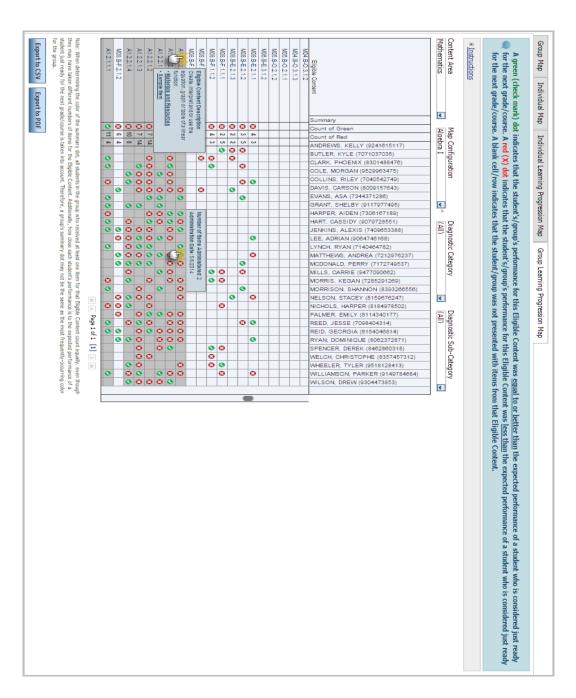
the list of SAS options, if resources presented in of materials and selected will be the first to the Eligible Content and Lesson Plans aligned Curriculum (VMC) Units Voluntary Model the Eligible Content. and to view materials Standards Aligned currently available in SAS Eligible Content is a VMC unit for the listed among the variety and resources aligned to Systems (SAS) Web site link to launch the

ω. specific item(s) presented average difficulty level compared to the set of Sample items are of an representative of the view a sample test item link within the pop-up to Click on the Sample Item item displayed. compared to the sample more or less difficult to the student may be Eligible Content; the items aligned to an Eligible Content selected.



GROUP LEARNING PROGRESSION MAP

- The Group Learning Progression Map displays all Eligible Content for the specified content area.
- Enables teachers and administers to view the learning progression map at a classroom level.
- Each dot (green or red) represents an item(s) that was presented to the student.
- The Eligible Content rows are highlighted based on the map configuration selected
- Use the scroll bar to view all Eligible Content.



summary dot may not be the same as the most frequently-occurring color for the group performance of a student just ready for the next grade/course is taken into account. Therefore, a group's for the Eligible Content. Additionally, how close each student's performance is to the expected item for that Eligible Content count equally, even though they may have taken different numbers of items Note: When determining the color of the summary dot, all students in the group who received at least one

DETERMINE INSTRUCTIONAL PLAN FOR STUDENT(S)

ACCESSING MATERIALS AND RESOURCES ON SAS

from the Interactive Reports: There are several ways to access materials and resources from the Standards Aligned System (SAS) directly

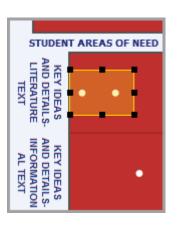
- from the Group Diagnostic Report,
- from the Individual Diagnostic Report, or
- from the Learning Progression Maps.

automatic sign-in to the Teacher Tool Box in SAS when an Eligible Content code is selected address for eDIRECT is the same as the email address they use for their SAS account. This will allow Note: Teachers with Standards Aligned System (SAS) accounts should make sure their user account email

VIEW ELIGIBLE CONTENT & ACCESS MATERIALS AND RESOURCES FROM THE GROUP DIAGNOSTIC

Multiple Students—To select multiple students within one of the Diagnostic Categories, follow these steps:

- Draw a box around a group of students by holding the mouse button down while dragging the cursor (pointer) across the dots to be selected.
- 2. Click on the **Show Eligible Content** button.
- ω The selected students' dots will turn yellow and will be yellow-highlighted in the Group Map Grid.
- 4 students selected will appear to the right of the map. A list of Eligible Content for the Diagnostic Category associated with the range of scores for the
- Click on any one of the Eligible Content codes to launch into the Standards Aligned System (SAS) Web site and gain access to all curriculum and resources available for the Eligible Content selected



INSTRUCTIONAL ENRICHMENT

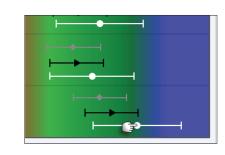
This Report Shows Eligible Content associated with the scores of the students and the Diagnostic Category selected. These students may benefit from enrichment in the following:

- E0(c.1.2.1: Introduce a topic for the audience; organize ideas, contests, and information using strategies such as definition, classification, comparison/contrast, and cause/effect to support the writer's purpose.
- E06.C.1.3.1: Engage and orient the reader; establish a context and point of view; introduce a narrator and/or characters; organize a sequence that unfolds naturally and logically; support the writer's numose.
- E06.C.1.1.1: Introduce claim(s) for the intended audience and support the without number by consoliting the reasons and evidence
- the writer's purpose by organizing the reasons and evidence.
 <u>E06.C.1.2.6:</u> Provide a concluding section that follows from the information or explanation presented.

Show Elighte-Content

REPORT: VIEW ELIGIBLE CONTENT & ACCESS MATERIALS AND RESOURCES FROM THE INDIVIDUAL DIAGNOSTIC

- Click on a white dot within one of the Diagnostic Categories.
- 2 appear to the right of the map. The list of Eligible Content for the Diagnostic Category associated with the student's score will
- ω Click on any one of the Eligible Content codes to launch into the Standards Aligned System (SAS) selected. Web site and gain access to all curriculum and resources available for the Eligible Content



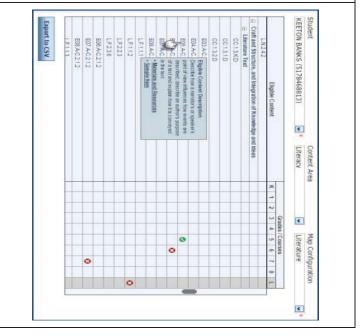
INSTRUCTIONAL ENRICHMENT

This Report Shows Eligible Content associated with the scores of the students and the Diagnostic Category selected. These students may benefit from enrichment in the following:

- E07.A(m, 2.1.3: Determine how the author uses the meaning of words or phrases, including figurative and connotative meanings analyze the impact of rhymes an
- ther repetitions of sounds.
 L.F.1.2.4: Draw conclusions about connotations of words.
- E06.A-C.2.1.1: Determine an author's purpose; explain how an author develops the point of view of the narrator or speaked describe the effectiveness of the point of view
- E05.A-C.2.1.1: Describe how a narrator's or speaker's point of view influences how events are described; describe an author's

PROGRESSION MAP: VIEW ELIGIBLE CONTENT & ACCESS MATERIALS, RESOURCES, AND SAMPLE ITEMS FROM THE LEARNING

- Hover over a desired dot until a pop-up appears.
- 2. Click on the Materials and Resources link within the pop-up to launch the SAS Web site and view materials and resources aligned to the Eligible Content. Voluntary Model Curriculum (VMC) Units and Lesson Plans aligned to the Eligible Content selected will be the first listed among the variety of materials and resources presented in the list of SAS options, if a VMC unit for the Eligible Content is currently available in SAS.
- 3. Click on the **Sample Item** link to view a sample test item representative of the Eligible Content selected. Sample items are of an average difficulty level compared to the set of items aligned to an Eligible Content; the specific item(s) presented to the student may be more or less difficult compared to the sample item displayed.



ADDITIONAL RESOURCES

If you have any questions, please review the support documentation and training resources that are available on PA eDIRECT/General Information/Documents at https://pa.drcedirect.com.

8:00 AM-5:00 PM Eastern Standard Time	Hours
Monday–Friday (exclusive of holidays)	
(763) 268-2567	Fax
PAcustomerservice@datarecognitioncorp.com	Email
(888) 551-6935	Phone
DRC PA CUSTOMER SERVICE TEAM	DRC PA CL

APPENDIX A: MANAGE YOUR PA eDIRECT ACCOUNT

MY ACCOUNT

- On the left hand side of the box, expand the Manage Users menu to display user account tools.
- 2. To update your personal information, click on My Account.
- 3. Click on Save upon completion.

Pennsylvania

BENARYNENT OF EDUCATION

SAS SCHOOLARIES
Standards
System





My Account Page

CHANGE MY PASSWORD

- **Policy** in the blue header. To change your password, click on Change My Password under Manage Users. Note the Password
- 2. Click on **Save** upon completion.



Change Password Page

APPENDIX B: ROLES AND RESPONSIBILITIES

responsible for setting up all the Teachers and TAs within the school that will be participating School Assessment Coordinators (SACs), Teachers, and Test Administrators (TAs) as they relate to the for setting up all SACs at schools within the district that will be participating, and in turn the SACs are Classroom Diagnostic Tools (CDT) Interactive Reports. As detailed in this section, the DAC is responsible This section outlines the roles and responsibilities for the District Assessment Coordinators (DACs),

responsibilities, it is flexible enough to allow for the DAC to be more restrictive of the SACs' access and rights in the system. Though the CDT Interactive Reports system allows for the DAC and SACs to have many of the same

administration of the Classroom Diagnostic Tools (CDT) assessments please refer to the Classroom Note: For information about assigning permissions and roles and responsibilities related to the Documents. Diagnostic Tools 2013–2014 User Guide, available electronically on the PA eDIRECT Web site under

Data Recognition Corporation (DRC) PA Customer Service

Responsibilities:

via the Classroom Diagnostic Tools 2013–2014 Registration Form. address were provided via the PA eDIRECT Enrollment system, via PA Customer Service email or Set up all DACs and District Technology Coordinators whose first name, last name, and email

DACs

Responsibilities:

- Service if there are any issues. Verify their PA eDIRECT account has been set up appropriately, and contact DRC PA Customer
- Verify and set up SAC PA eDIRECT user accounts appropriately.
- Provide training and support to SACs.

SACs

Responsibilities:

- Verify their PA eDIRECT account has been set up appropriately, and contact the DAC if there are
- Verify and set up Teachers' PA eDIRECT user accounts appropriately
- Provide training and support to Teachers.
- Confirm all teachers utilizing the CDT Interactive Reports are listed as Teachers within the PA Student Groups in the system. eDIRECT system; ensure email address within the system match email address associated with PA eDIRECT user accounts; and ensure Teachers and students are associated correctly via

Teachers

Responsibilities:

- Verify their PA eDIRECT account has been set up appropriately, and contact the SAC if there are any issues.
- Verifying the SAC has correctly created Student Groups within the PA eDIRECT system, thereby ensuring Teachers have access to the appropriate student results within the Interactive Reports
- Confirm their PA eDIRECT account and Standards Aligned System (SAS) account email addresses are the same.

TAS

Responsibilities:

Do not have a need to access CDT Interactive Reports.

APPENDIX C: MANAGE PA eDIRECT USERS

flexibility to have users with the same roles but different permissions. select what role each person has and assign permissions to that individual accordingly. This allows the PA eDIRECT is a permissions-based system, meaning that users with administrative rights will need to

managing users within the PA eDIRECT system, DRC recommends that only DACs and SACs be granted Permissions must be assigned for the District Assessment Coordinators (DACs), School Test Coordinators administrative permissions. (SACs), Teachers, and Test Administrators (TAs). Since DACs and SACs are responsible for adding and

can be performed by clicking on User Administration under the Manage Users menu tab and selecting If you are a DAC or an SAC who has been granted administrative permissions, you will have the ability to Edit User. manage all user accounts within your district, including schools. The following table lists the actions that

		Actions
Edit User		Update user contact information/profile. Set a new password.
Reset User	3	Reactivate a user account if it is inactive.
Inactivate	0,0	Inactivate a user account.

The Profiles tab allows an administrative user to update multiple user profiles at a time

REQUIRED PERMISSIONS TO VIEW INTERACTIVE REPORTS AND HISTORICAL DATA SEARCH

To view the interactive diagnostic reports, the following permissions must be granted:

Reports—Diagnostic Reports

Teachers

- system and have students associated with them via Student Groups to access the Group Map. Teachers must not only have PA eDIRECT user accounts, but they must also be in the Test Setup
- 5 account email address. The email address for a Teacher's Test Setup profile MUST match his/her PA eDIRECT user

EDIT EXISTING USER

- To edit an existing user, click on User Administration.
- 2 Enter the desired search criteria and click on Find User.
- ω To reset a user's password, click on the Reset Password
- To inactivate a user account, click on the Inactivate

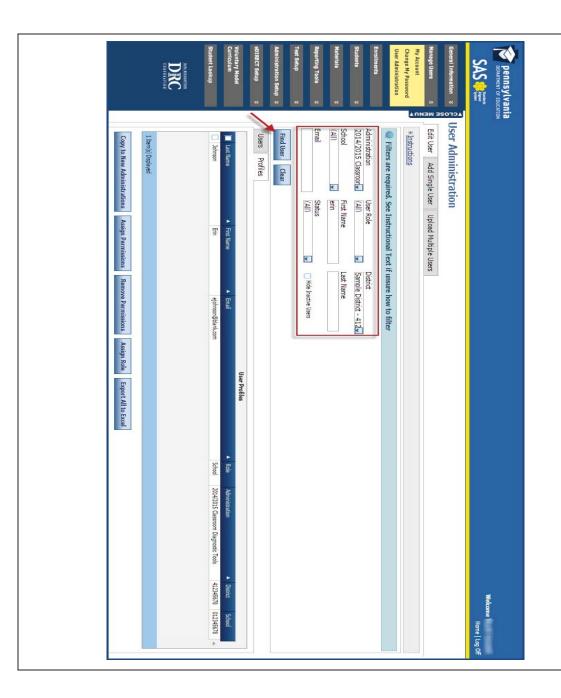
4.





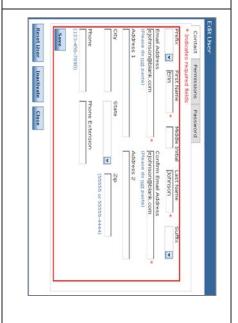
5. To edit a user's contact info, permissions, or password, click on the View/Edit Lon.





Edit Contact Information

- To edit contact information, click on the Contact Tab.
- 2. Make the desired changes, and click on **Save.**



Edit User Permissions

- 1. To edit a user's permissions, click on the **Permissions** tab.
- To edit permissions of a current administration, click on the



of the desired administration. (See the "Add Single New User" section of this *User Guide*.)

3. To remove an administration altogether, click



icon.

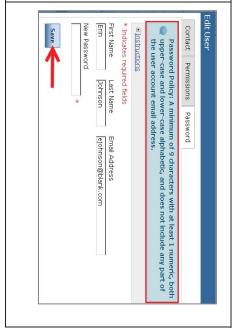
 To add permissions for a new administration, click on Add. (See the "Add Single New User" section of this User Guide.)



Set User Password

- To manually set a user's password, click on the Password tab.
- 2. Set a new password in accordance with the **Password Policy** found in the blue header.
- 3. Click on Save upon completion.

NOTE: DRC representatives can reset passwords as needed.



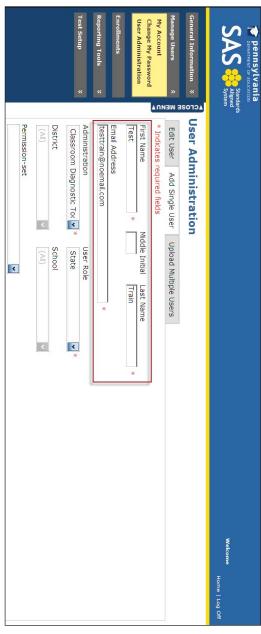
SETTING UP A NEW USER

their account will be made inactive, and the password will no longer work. time. If they do NOT log on to the system within ten (10) days of receiving their temporary password, multiple users. An email will be sent to new users notifying them that an account has been created. Administrative users have the option to either set up users one at a time or to perform an upload of They will be provided with a temporary password that they will use to log on to the system for the first

user. Instead, the user's permissions should be updated as needed. When an administrative user tries to add a new user who has an existing account, the system will generate a notification that an account exists and that the system was unable to add him/her as a new

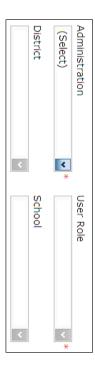
ADD SINGLE NEW USER

To add a new user, click on the Add Single User tab.



User Administration Page – Add Single User Tab

- 2. Enter required contact information.
- 3. Select Administration (if available).
- Define User Role.
- districts for which you have an account. Select the appropriate District from the drop-down menu. Note that you will only have access to
- 6 which the user should have an account. If a user works for multiple schools, you will need to manage If you are adding a School User, please select the appropriate school from the drop-down menu for that information in the Profile section under Edit User.



Select from the Available Permissions column, and then click on the Add Selected

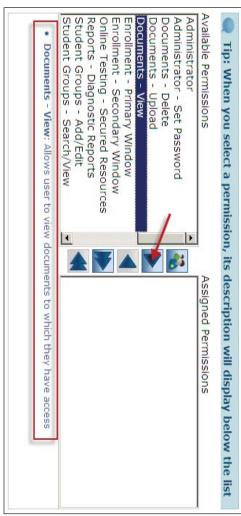
icon.

7.

a.

- When permission is highlighted, its description will display below in blue.
- b. To duplicate the permission settings of a current user, select the Clone





Inset of User Administration Page

- 9 & Click on Save
- account has been created and including his/her username and temporary password An email will be automatically generated and sent to the new user, informing him/her that an

UPLOAD MULTIPLE USERS

upload must have the same permissions. To upload multiple users, click on the **Upload Multiple Users** tab. Note that all users in a single



User Administration Page – Upload Multiple Users tab

- ? Select the Administration (if available).
- ω Sample File in the blue header. Click on Browse to attach your spreadsheet. For an example of the file layout, click on File Layout or
- Click on Upload.
- 5.5 Define permissions for users. (See the "Add Single New User" section in this User Guide.)

APPENDIX D: ACCESSING DOCUMENTS ON eDIRECT

or other documents for general use. eDIRECT documents contain program information such as administration manuals, teacher instructions,

- On the left-hand side of the box, expand the General Information menu to display system information.
- 2. To access **Documents**, simply click on the link.



APPENDIX E: EDIRECT MINIMUM SYSTEM REQUIREMENTS

MINIMUM WEB BROWSER REQUIREMENTS

- Microsoft Internet Explorer 7.0 through 9.0
- Mozilla Firefox 3.6
- Mozilla Firefox 6.0 or higher
- Apple Safari 4.0 or higher
- Any other Web browser compatible with these browsers

ADDITIONAL REQUIREMENTS

- Browser must support JavaScript
- Browser must accept session-based cookies

^{*}Make sure firewalls allow emails from XX@datarecognitioncorp.com

APPENDIX F: DIAGNOSTIC CATEGORIES

Assessment	Diagnostic Category	Module
Mathematics	NUMBERS & OPERATIONS	N/A
Mathematics	MEASUREMENT	N/A
Mathematics	GEOMETRY	N/A
Mathematics	ALGEBRAIC CONCEPTS	N/A
Mathematics	DATA ANALYSIS & PROBABILITY	N/A
Algebra I	OPERATIONS WITH REAL NUMBERS AND EXPRESSIONS	MODULE 1: Operations and Linear Equations & Inequalities
Algebra I	LINEAR EQUATIONS & INEQUALITIES	MODULE 1: Operations and Linear Equations & Inequalities
Algebra I	FUNCTIONS & COORDINATE GEOMETRY	MODULE 2: Linear Functions and Data Organization
Algebra I	DATA ANALYSIS	MODULE 2: Linear Functions and Data Organization
		,
Geometry	GEOMETRIC PROPERTIES	MODULE 1: Geometric Properties and Reasoning
Geometry	CONGRUENCE, SIMILARITY, & PROOFS	MODULE 1: Geometric Properties and Reasoning
Geometry	COORDINATE GEOMETRY & RIGHT TRIANGLES	MODULE 2: Coordinate Geometry and Measurement
Geometry	MEASUREMENT	MODULE 2: Coordinate Geometry and Measurement
Algebra II	OPERATIONS WITH COMPLEX NUMBERS	MODULE 1: Numbers Systems and Non-Linear Expressions & Equations
Algebra II	NON-LINEAR EXPRESSIONS & EQUATIONS	MODULE 1: Numbers Systems and Non-Linear Expressions & Equations
Algebra II	FUNCTIONS	MODULE 2: Functions and Data Analysis
Algebra II	DATA ANALYSIS	MODULE 2: Functions and Data Analysis
Science	THE NATURE OF SCIENCE	N/A
Science	BIOLOGICAL SCIENCES	N/A
Science	PHYSICAL SCIENCES	N/A
Science	EARTH/SPACE SCIENCES	N/A
Biology	PRINCIPALS/CHEMICAL BASIS FOR LIFE	MODULE 1: Cells and Cell Processes
Biology	BIOENERGETIC/HOMEOSTASIS AND TRANSPORT	MODULE 1: Cells and Cell Processes
Biology	REPRODUCTION/GENETICS	MODULE 2: Continuity and Unity of Life
Biology	THEORY OF EVOLUTION/ECOLOGY	MODULE 2: Continuity and Unity of Life

Assessment	Diagnostic Category	Module
Chemistry	PROPERTIES AND CLASSIFICATION OF MATTER	MODULE 1: Structure and Properties of Matter
Chemistry	ATOMIC STRUCTURE AND THE PERIODIC TABLE	MODULE 1: Structure and Properties of Matter
Chemistry	THE MOLE AND CHEMICAL BONDING	MODULE 2: The Mole Concept and Chemical Interactions
Chemistry	CHEMICAL RELATIONSHIPS AND REACTIONS	MODULE 2: The Mole Concept and Chemical Interactions
Reading/Literature	KEY IDEAS AND DETAILS- LITERATURE	N/A
Reading/Literature	KEY IDEAS AND DETAILS- INFORMATIONAL TEXT	N/A
Reading/Literature	CRAFT/STRUCT & INTEGRATION OF KNOWLEDGE/IDEAS- LIT TEXT	N/A
Reading/Literature	CRAFT/STRUCT & INTEGRATION OF KNOWLEDGE/IDEAS- INFO TEXT	N/A
Reading/Literature	VOCABULARY ACQUISITION AND USE	N/A
Writing/English Composition	QUALITY OF WRITING: FOCUS AND CONTENT	N/A
Writing/English Composition	QUALITY OF WRITING: ORANIZATION AND STYLE	N/A
Writing/English Composition	QUALITY OF WRITING: EDITING	N/A
Writing/English Composition	CAPITALIZATION, AND PUNCTUATION	N/A
Writing/English Composition	CONVENTIONS: GRAMMAR AND SENTENCE FORMATION	N/A



Pennsylvania Testing Programs **TECHNOLOGY USER GUIDE**

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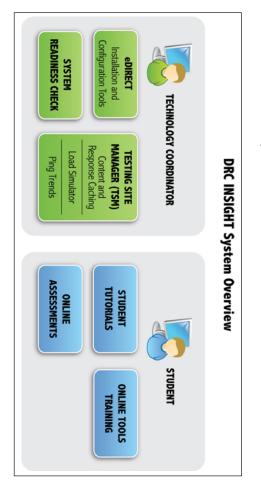
Glossary

Introduction

DRC INSIGHT Online Learning System

secure statewide assessments, such as the Pennsylvania System of School environment. It is a proven online testing system that successfully delivers that make up the DRC INSIGHT Online Learning System, or DRC Assessments (PSSA) and the Pennsylvania Keystone Exams. combination of software and hardware to provide a secure, online testing INSIGHT. DRC INSIGHT is a web-based, online interface used with a The DRC INSIGHT Technology User Guide describes the components

maintain connectivity, and handle bandwidth issues. and the Testing Site Manager (TSM) to help manage network traffic, related resources, dynamic reporting, and a suite of educator tools. It content areas and grade levels, as it incorporates computerized testing, DRC INSIGHT delivers assessments and related resources online for all consists of a software interface that is available from a secure web browser



troubleshooting issues, as well as frequently asked questions (FAQs) troubleshoot DRC INSIGHT. It contains configuration and installation This user guide describes how to configure, install, manage, and INSIGHT and its components, and provides tips and techniques for information for various environments, describes how to use DRC

necessary security privileges to perform the tasks discussed in this guide ensuring their systems work effectively and securely. TCs should be who are responsible for setting up and managing online testing, and This guide is designed primarily for the Technology Coordinators (TCs) iOS (iPad), and Chrome (Chromebook) operating systems, and have the knowledgeable about the technical details of the Windows, Mac (OS X),

(SACs) use DRC INSIGHT more effectively. Assessment Coordinators (DACs), and School Assessment Coordinators This guide is also designed to help Test Administrators (TAs), District

indicates important information or critical tips. (!) Important: Throughout this user guide, the Information icon ((!))

About This Guide

Audience and Prerequisites

☐ Important Information

■ INSIGHT Web Browser and INSIGHT Server

stores them securely. Throughout this user guide, we refer to the secure web to the test taker and to send responses to the DRC INSIGHT server, which the DRC INSIGHT server to provide online tools training and test questions interface installed on each testing device. This software communicates with browser interface as simply INSIGHT. The main component of DRC INSIGHT is the secure web browser testing



System
Readiness Check

■ The eDIRECT

System

testing. helps you configure the testing device and verify that it is ready to use for The System Readiness Check runs when INSIGHT is installed or starts. It

eDIRECT is the distribution and administrative portion of the DRC INSIGHT Online Learning System.

- from eDIRECT to set up their testing environment. Technical users download INSIGHT, the TSM, and other software
- sessions, and test groups to help manage or monitor their testing environment and report the results. Administrative users use eDIRECT to create student records, test

The details of the eDIRECT system are covered in the eDIRECT user

■ Testing Site Manager (TSM)

you plan, configure, and manage your online testing environment. web-based application that provides caching and a software toolbox to help INSIGHT also provides the Testing Site Manager (TSM), a powerful,

☐ Content and Response Caching

> communication between the test devices and the DRC INSIGHT server. computers with sufficient bandwidth to help manage and streamline performance. DRC strongly recommends the TSM caching software for maximum Usually, you install the TSM caching software on one or more strategic

caching software sends its cached test items to the testing devices. This content must be current in order for students to test. response caching for student test responses. At test time, the TSM content The TSM offers two types of caching—content caching for test content and

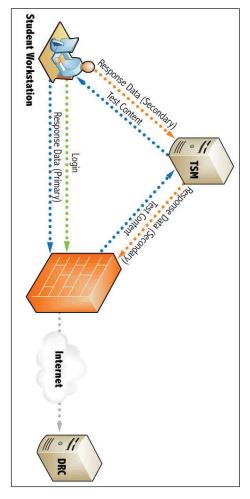


Figure: TSM Content and Response Caching

transmission to DRC, so no responses are lost. testing computers, the test responses are still being stored on the TSM for fifteen minutes. Even if DRC is not currently communicating with the with DRC, it sends test responses to the DRC INSIGHT server every test responses. When the response caching software is communicating During testing, if the test computers cannot communicate with the DRC INSIGHT server, the response caching software buffers and stores their

☐ TSM Diagnostic Tools

Graphs, to help sites prepare and manage their test environment. diagnostic software tools, including Load Simulation Tests and Ping Trend In addition to content and response caching, the TSM offers powerful students cannot start a test session if there is no communication between

[] Important: TSM response caching is used during a test session

the INSIGHT server and the testing device, or if there are unsent responses

on the TSM.

Online Tools Training (OTT)

and allow students to practice using the testing interface's online tools DRC INSIGHT's Online Tools Training (OTT) simulate online testing environment and the suite of online testing tools, such as the Line The OTT allows students to become familiar with the online test

familiar with the tools and features available during online testing. The OTT contains sample test questions to help students become

Guide tool and the Highlighting tool.

INSIGHT test environment and the testing tools. early as possible to give students time to familiarize themselves with the Note: It is important to install INSIGHT on the testing computers as

access the tutorials from a desktop shortcut. with all aspects of online testing. After INSIGHT is installed, students can DRC offers optional online tutorials to help students become familiar

students test successfully. DRC INSIGHT also offers optional testing accommodations to help

and a TSM is required (1) Important: There is no separate installation for any accommodation

computer-simulated voice Text-To-Speech (TTS) allows a student to hear the test recorded by a

instructions and the test content signed visually through an online video. Video Sign Language (VSL) allows a student to see both the test

TestingAccommodations

- ☐ Text-To-Speech (TTS)
- ☐ Video Sign Language (VSL)

Notes

and Testing Information System Requirements

What's Covered in This Chapter

desktop requirements to configure INSIGHT, the Testing Site Manager (TSM), and automatic software updates. This chapter describes the specific hardware, software, network, and

to the DRC servers and databases through the Internet. perform to configure the INSIGHT software environment. TCs must configure INSIGHT to use with TSM systems and to connect directly This chapter also discusses tasks Technology Coordinators (TCs)

software, devices, and accommodations that work with INSIGHT and the TSM. This user guide includes information about the operating systems

throughout the user guide. The specific technical information covered in this user guide for Pennsylvania is shown below. Use this information as reference

PennsylvaniaConfigurationInformation

Operating Systems

Windows
Mac (OS X)
Linux
Apple iOS
Chrome OS

TSM and Other Options

Response Caching
Content Caching
Load Simulation Testing
Ping Trends

Accommodations

Text-To-Speech (TTS)
Video Sign Language (VSL)

■ Testing Checklist

complete before and during testing to use INSIGHT and the TSM. The following is a checklist of the tasks TCs must successfully

Before Testing

- Review this user guide.
- Uninstall the old TSM and INSIGHT software (if applicable) and chapters). Or, use automatic software updates (see "Automatic install the new TSM and INSIGHT software (see the Installation versions of the TSM and INSIGHT software Software Updates" on page 26). Verify that you have the latest
- page 133). district+school+location in the building (see "Using the TSM" on Start the TSM and 'name' it using following naming convention:
- (see "Using the System Readiness Check" on page 160). Complete a System Readiness Check on each testing computer
- Language (VSL) Configuration" on page 29. If you have students who will test using VSL, review "Video Sign
- If you have students who will test using TTS, review "Text-To-Speech (TTS) Configuration" on page 32

During Testing

- the TSM" on page 133). On the first day of testing, verify that all content, including TTS and VSL, displays a status of Up to Date in the TSM (see "Using
- During testing, monitor student responses on the TSM (see "Response Caching-Viewing Unsent Student Test Responses" on page 139 to ensure that the value for Unsent Tests is 0 [zero]).

At the End of the Test Administration

- ✓ Verify that all tests are completed.
- process, called "forced submit," verifies that all test results are status of In Progress are changed to Complete in eDIRECT. This submitted test responses are scored. At that time, all tests with a email notification from DRC before the process occurs accounted for. Each district involved in the assessment receives **1) Important:** At the end of the testing window, all of the
- < see "Response Caching-Viewing Unsent Student Test Responses" on page 139 Verify that the value for Unsent Tests on each TSM is 0 (zero)—

Pre-Testing Checklist for iPad and Chromebook Devices

testing with iPads and Chromebooks The following is a checklist of items TCs must verify and complete before

- Ensure that the iPad or Chromebook device is connected to the correct Wi-Fi network.
- < each iPad or Chromebook device. Ensure that the latest version of the DRC INSIGHT App is installed on
- plugged in. Ensure that all iPad and Chromebook devices are fully charged or
- the Emoji keyboard is deleted Ensure that the iPad device's soft keyboard is set to English and that
- associated with the iPad. you configure each iPad to avoid confusion about which keyboard is external Bluetooth keyboards. Remember to pair the keyboards as Manually pair one keyboard with one iPad device if you are using

supported for iPad devices). multiple-choice items only (wired and wireless external keyboards are open-ended items. An external keyboard is optional for tests containing An external Bluetooth keyboard is required for all tests containing

- < Auto-Capitalization are turned off on each iPad device.* Ensure that Check Spelling, Predictive Text, Auto-Correction, and
- ✓ Enable and activate Guided Access on each iPad device.*

"iOS 8-Predictive Text and the Emoji Keyboard" on page 97. It Manually" on page 91, "Working with Guided Access" on page 96, and topics: "Installing INSIGHT Using an MDM Solution and Configuring this task. If you must perform this task manually, see the following *Many Mobile Device Management (MDM) solutions can perform

Installation Files

type of installation and operating system. operating system. The following table lists the file(s) or URL for each Different INSIGHT and TSM installations are available for each

environment. Sign Language (VSL), and no accommodation is supported in a Linux Note: There is no separate installation for Text-To-Speech (TTS) or Video

Table: INSIGHT and TSM Installation Files and Links

Installation	Operating	File(s)/URL
	System	
INSIGHT	Windows	DRC_INSIGHT_Setup.msi
	Mac (OS X)	DRC_INSIGHT_Setup.pkg
	Linux	DRC_INSIGHT_Setup_amd64.deb (64-bit) DRC_INSIGHT_Setup_i386.deb (32-bit)
	Chrome OS	The INSIGHT App ID and URL is contained in the following text (.txt) file:
		https://pa-insight-client.drcedirect. com/Download/SecureBrowser/ ChromeAppIDInfo.txt
	iOS	https://pa-insight-client.drcedirect.com/ Download/SecureBrowser/INSIGHT.ipa
		https://pa-insight-client.drcedirect.com/Download/SecureBrowser/ ManagedAppConfig.plist
TSM	Windows	TESTING_SITE_MANAGER_Setup.exe
	Mac (OS X)	TESTING_SITE_MANAGER_Setup.dmg
	Linux	TESTING_SITE_MANAGER_Setup.sh

INSIGHT System Requirements

detailed specifications in this section. including desktops, laptops, netbooks, and other devices, using the supported operating system platforms. The system requirements for testing with accommodations are higher than for standard testing. Refer to the This section covers the minimum and recommended requirements for INSIGHT on testing computers

advises using the recommended level. processing power, which can reduce responsiveness and increase response times during testing. DRC hardware may not deliver an optimal student testing experience. Devices may struggle with memory and (!) Important: The minimum level is a low compliance threshold—at this level, the software and/or

INSIGHT Requirements for Desktop, Laptop, and Netbook Computers

laptop, and netbook computers. The following are some general notes about INSIGHT system requirements. The table on the following page describes the minimum and recommended system requirements for desktop,

Windows

- For Windows users, DRC recommends Windows 7.
- are supported For Windows 8 and other operating systems with touch-screen versions, only non-touch-screen versions
- INSIGHT supports both 32-bit and 64-bit versions of Windows

Mac (OX S)

For Mac installations, Mac Server software is not supported

Linux

For Linux installations, Ubuntu Server software is not supported

Other

- Smart Board interfaces, which function as a touch-screen device, are not supported. If you are using Smart Board, you may need to disable or uninstall it.
- areas; enter letters, numbers, and symbols; and use the Shift, Tab, Enter, Delete, and Backspace keys The input device for testing must allow students to select/deselect; drag; highlight text, objects, and

INSIGHT Requirements for Desktop, Laptop, and Netbook Computers (cont.)

Table: INSIGHT Requirements for Desktop, Laptop, and Netbook Computers

Operating System	Minimum	Decommended
Windows	Windows XP with the most recent Service	Windows 7 or newer
• Windows XP	Pack	
 Windows Vista (TTS is not supported for Windows Vista) 	Microsoft discontinued support for Windows	
• Windows 7	and support risks for schools that continue	
• Windows 8 (including 8.1) non-touch-screen versions	to use it (see "Support for Windows XP and Mac 10.6.8 (OS X)" on page 38).	
Windows Server		
Windows Server 2008		
• Windows Server 2012		
Note: INSIGHT supports these versions		
of Windows and Windows Server with		
Mac OS	Mac OS 10 6 8 with the most recent	Mac OS 10.7 or newer
• OS X 10.6.8	software updates	
• OS X 10.7		
• OS X 10.8	Apple discontinued support for Mac 10.6.8 in 2013, which presents security and support	
• OS X 10.10	risks for schools that continue to use it (see "Support for Windows XP and Mac 10.6.8"	
Note: INSIGHT supports these versions	(OS X)" on page 38).	
software updates.		
Linux		
Ubuntu 12.04.1	Gnome 3.4, Unity shell	Same
Memory	512 MB RAM	1 GB RAM or greater
Processor	1 GHz	1 GHz or faster
Disk Space	100 MB available	100 MB or more available
Screen Size	9.5 inches	13 inches or larger
Screen Resolution	1024 x 768	1024 x 768 or higher
	Computers must be able to connect to the	Computers connected
Internet Connectivity	Internet.	to the Internet via wired networks.
Input Device Requirements	Keyboard, wired or wireless, including Bluetooth. To meet secure testing requirements, each Bluetooth or wireless keyboard must be	oth. To meet secure ss keyboard must be
	configured to pair with only a single computer during testing	during testing.
Other Devices	Standard interface devices such as mice, touchpads, headphones microphones, earphones, and earbuds are supported.	pads, headphones, orted.

INSIGHT Requirements for iPad Devices

This section covers the minimum and recommended requirements for INSIGHT on iPad testing devices using the supported operating system.

Table: INSIGHT Requirements for iPad Devices

Operating System	Minimum	Supported/Recommended
	iOS 8.1.3	iOS 8.1.3 iOS 8.2
	Requires an iPad 2 device or newer. iPad Air devices are supported. iPad mini devices are not supported.	
Apple iOS	 Important: To distribute the INSIGHT App to iPad devices, you must use an MDM solution. To mass configure the INSIGHT App for iPad devices, you must use an MDM solution that supports the Managed App Configuration feature. You also can manually configure the INSIGHT App on each iPad. 	
	For more information, see "Distributing and Configuring INSIGHT to iPad Devices" on page 88.	
Screen Size	A standard iPad 9.7" screen	A standard iPad 9.7" screen
Battery	A fully charged battery with a two-hour life	A device connected to a plugged-in power supply
Internet Connectivity	iPad devices must be able to connect to the Internet.	
	Bluetooth Keyboard To meet secure testing requirements, each Bluetooth keyboard must be configured to pair with only a single device during testing.	keyboard must be configured to
Input Device Requirements	External Keyboard An external wireless Bluetooth keyboard is required for all tests with open-ended items. External wired keyboards are supported for testing.	for all tests with open-ended sting.
	Internal Keyboard The internal, virtual iPad keyboard is also supported.	
Other Devices Supported	Earphones, microphone, stylus	

INSIGHT Requirements for Chromebook Devices

devices using the supported operating system. This section covers the minimum and recommended requirements for INSIGHT on Chromebook testing

[] Important: Only non-touch-screen Chromebook devices are supported.

Table: INSIGHT Requirements for Chromebook Devices

Operating System	Minimum	Recommended
	The latest stable channel version of Chrome OS with a	The latest stable channel
	non-touch-screen Chromebook.	with a non-touch-screen
	(!) Important:	Chromebook.
	the Chromebooks must run on a level of Chrome that	
	supports Single App Kiosk Mode. The DRC INSIGHT Chrome App requires Single App Kiosk Mode to launch	
	and ensure a secure testing environment on Chromebook	
Chrome OS	provided by Google, which one did DRC select and why?" on page 193	
	devices, you must have Google Apps for Education set	
	up and have your devices enrolled in Chrome device management (allows you to manage multiple Chrome	
	devices from a central console). See "Q3: Why does	
	DRC require Google Apps for Education and the Google Administrator accounts?" on page 195 and "Example of	
	Chromebook Setup and Configuration for INSIGHT" on	
Memory	512 MB RAM	1 GB RAM or greater
Processor	1 GHz	1 GHz or faster
Disk Space	100 MB available	100 MB or more available
Screen Size	9.5 inches or larger	13 inches or larger
Battery	A fully charged battery with a two-hour life	A device connected to a
Screen Resolution	1024 x 768	1024 x 768 or higher
Internet	Chromebook devices must be able to connect to the Internet.	
Connectivity		
Input Device Requirements	The built-in Chromebook keyboard and a mouse (recommended) or touchpad. The input device must allow students to select/deselect; drag; highlight text, objects, and areas; enter letters numbers and symbols and press the Shift. Tab. Return. Delete and Rackspace keys	d) or touchpad. The input xt, objects, and areas; enter Delete and Backsnace keys
Other Devices Supported	Earphones, microphone, mouse	
•		

System Requirements and Testing Information

The TSM

communication with the TSM is re-established. caching, if the Internet connection to DRC fails, students can continue currently communicating with the testing computers, testing is halted until cached response information every fifteen minutes. If the TSM is not testing. When the TSM is communicating with DRC, it transmits its test items, and response caching for student responses. With response The TSM offers two types of caching: content caching for tests and

DRC recommends using a TSM.

(!) Important: A TSM is required for TTS and VSL

bandwidth traffic of about 50% when downloading test content A TSM offers many benefits and features, including a typical reduction in

Benefits and

Features

- (requires administrative rights). You can install the TSM using an easy-to-use installation wizard
- option. After the content is installed, updates to test content are automatically downloaded. You can populate the TSM with test content using its content caching

A TSM can help students during exams.

Connection Information

- stops testing and the student loses the connection. computers and DRC are delayed. If the delay is too long, the software the Internet connection is congested, messages between the testing DRC servers through the Internet. If that communication stalls because With no TSM, the testing computers submit answers directly to the
- manage message traffic. You also can submit test responses manually automatically submit its collected test responses to DRC, which helps the TSM response cache. Every fifteen minutes, the TSM attempts to connection is congested, the testing computer sends its answers to With a TSM, if the communication stalls because the Internet

- ☐ TSM Installation and the Number of Students Testing
- every 150 students that are testing at the same time (concurrently). This guideline is based on the following assumptions: As a general guideline, you can install the TSM software once for
- The TSM software is configured for content and response caching
- The TSM software is installed on a dedicated device
- The TSM device and network meet the following specifications:
- 4 GB of RAM
- 2 x 2.4 GHz processors
- 64-bit Windows operating system
- 100 Mbps WAN or LAN data speed

may differ based on the actual hardware and software specifications of the TSM device, the network speed, and the TSM caching options selected. [] Important: This is only a guideline. The number of TSMs required

suitable environment for a TSM. As a result, you should install the TSM and connect to the TSM when you install INSIGHT on the iPad or software on a Windows PC, Mac (OS X) computer, or Linux machine Chromebook device. For various reasons, iPad and Chromebook devices do not provide a A TSM is used primarily to cache and manage test content and responses

installation chapter. For specific TSM installation instructions, refer to the appropriate

TSM Requirements

operating system platforms. The following table describes these requirements. This section covers the minimum and recommended requirements for the TSM using the supported

Note: A TSM is required for TTS and VSL, and there is no separate installation.

Table: System Requirements for the TSM

Operating System	Minimum	Recommended
Windows	Windows XP with the most-recent	Windows 7 or newer
Windows XP	Service Pack	
Windows Vista (TTS is not supported for	Microsoft discontinued support for	
• Windows 7	Windows XP April 8, 2014, which	
 Windows 8 and 8.1, non-touch-screen 	presents security and support risks	
versions	"Support for Windows XP and Mac	
	10.6.8 (OS X)" on page 38).	
Windows Server	Windows Comor 2002	Windows Comor
 Windows Server 2003 	WIIIdows Server 2005	2008 or newer
Windows Server 2008		OCC OF HOMOL
Windows Server 2012		
Notes:		
 The TSM supports these versions of Windows and Windows Server with the 		
most-recent Service Pack.		
The TSM supports both 32-bit and 64-bit		
CADACAD CA TILLING TIC.		
Mac OS		
• OS X 10.6.8	Mac OS 10.6.8	Mac OS 10.7 or
• OS X 10.7		newer
• OS X 10.8	Apple discontinued support for	
• OS X 10.9	Mac 10.6.8 in 2013, which presents	
• OS X 10.10	that continue to use it (see "Support that continue to use it (see "Su	
Notes:	for Windows XP and Mac 10.6.8 (OS	
• The TSM supports these versions of Mac	X) on page 38).	
• For Mac installations Mac Server software		
is not supported		
is not supported.		
<u>Linux</u> Ubuntu 12.04.1	Ubuntu 12.04.1, 32-bit and 64-bit	Same
Note: For Linux installations, Ubuntu Server		
software is not supported.		

TSM Requirements (cont.)

Item	Minimum	Recommended
Memory	1 GB	1 GB or more
Processor	1 GHz	1 GHz or faster
Disk Space	10 GB	10 GB or more
Screen Size	9.5 inches or larger	13 inches or larger
Screen Resolution	1024 x 768	1024 x 768 or higher
Internet Connectivity	Computers must be able to connect to the Internet.	Computers connected to the Internet via wired networks.
Accommodation		
SII		
Memory	1 GB RAM	1 GB RAM or greater
Processor	1 GHz	1 GHz or faster
Disk Space	10 GB available	10 GB or more available
	These TSM disk space requirements assume an average fixed-form item size of 2 MB and an average computer adaptive test (CAT) item pool size of 2 GB (shared across all CAT items).	
<u>VSL</u>		
Memory	1 GB RAM	1 GB RAM or greater
Processor	1 GHz	1 GHz or faster
Disk Space	20 GB available	20 GB or more available
	Because of the size of video files, VSL can increase storage needs an additional 10 GB.	
	These TSM disk space requirements assume an average fixed-form item size of 2 MB and an average computer adaptive test (CAT) item pool size of 2 GB (shared across all CAT items).	

Automatic Software Updates

that you have the latest version of the INSIGHT and/or TSM software (see "Using the System Readiness this task manually or automatically. You can use the System Readiness Check at any time to confirm Check" on page 160). For online testing, both the INSIGHT software and the TSM software must be up to date. You can perform

testing days, testing devices should not be set to automatically update the operating system ① Important: INSIGHT and TSM software updates are different than operating system updates. On

INSIGHT Software Updates

the System Readiness Check (see "Setting DRC INSIGHT Properties" on page 169). installation process (see the Installation chapters). After installation, you can modify this setting by using Automatic Update checkbox on the INSIGHT Automatic Update dialog box during the INSIGHT To specify that the INSIGHT software automatically update the testing devices, check the Enable

- and provides the option to install any software updates. If the Auto Updates feature is enabled, the software checks the version each time INSIGHT is launched,
- If the Auto Updates feature is not enabled, the software also checks the version when INSIGHT starts
- version of the software and cannot continue When a student attempts to log in to a test, the student is notified that they do not have the latest
- You must update the software manually by downloading the latest version from eDIRECT and

Update your software *before* testing begins to avoid delays.

installation folder 1 Important: Updates do not require administrative rights, but you must have Write privileges to the

TSM Software Updates

or to be notified when updates are available and install them manually. When you install a TSM, on the Automatic Update window you specify whether to enable notification of TSM software updates For a TSM machine, you can specify whether to have TSM software updates performed automatically,

- If you select Enable Automatic Update (the default value), DRC updates the TSM software automatically.
- If you select Disable Automatic Update, DRC notifies you whenever an update to the TSM software is available and you must update the TSM software manually.
- can test. For example, if the machine where the TSM is installed was turned off recently, it is possible that the TSM software is out of date (1) Important: On the day of testing, confirm that the TSM software is up to date to ensure that students

Network Requirements for Testing Computers

This section describes various network considerations for online testing

Network Connectivity

To ensure proper network connectivity for testing, keep the following information in mind:

- HTTP/HTTPS protocols on ports 80 and 443 All testing computers should have access to the Internet and be able to access the DRC servers using
- All firewalls at the testing computer and the network level should allow connectivity on ports 80 and
- software that you use locally: Make sure that you whitelist the URLs below on the content filtering systems or other proxy/firewall

http://pa-insight-client.drcedirect.com

https://pa-insight.drcedirect.com

https://wbte.drcedirect.com

dtk.drcedirect.com 50.58.190.22 (for Chromebooks only)

- If your location uses an Internet connection idle timeout, please verify that the timeout limit is sufficient to allow students to complete testing.
- If your location uses screensavers, please verify that the timeout limit is sufficient to allow students to complete testing
- DRC recommends allowing INSIGHT traffic to bypass your firewalls and proxies if possible. For Appendix B more information, see "Question 1: I Don't Know What to Whitelist, Allow, or Unblock?" on page 199 in

Wireless Networking

Testing" on page 149). that will be testing. DRC recommends performing load testing in a wireless network (see "Load Simulation a wireless network, verify that your access points and network can handle the number of simultaneous users networks, or if too many students attempt to connect to a single access point. When you test load capacity in INSIGHT supports wireless networks. However, sites may experience issues on less reliable wireless

Desktop Monitoring

times to guarantee adequate security. that will be used for testing, you should disable the monitoring software on these computers during test [] Important: If your testing location uses remote desktop monitoring software to monitor the computers

that any staff members who can use the monitoring software refrain from using it during testing periods. operating system of the testing computer. If it is not feasible to disable your monitoring software, ensure The particular steps you need to take vary, depending on the monitoring software you are using and the

INSIGHT Bandwidth and Connectivity Requirements

changed (or to the TSM if communication with DRC is lost*). from the DRC server (or the TSM if available). INSIGHT sends answers to DRC every time the page is To start a test, INSIGHT contacts DRC to log in. After a successful login, INSIGHT downloads the test

- INSIGHT must maintain connectivity to the Internet or a TSM throughout the test
- INSIGHT supports wireless networks.

*If a testing computer cannot communicate with DRC, the student cannot log on to start a test

Bandwidth Calculation Guidelines

due to Internet traffic. The greatest amount of bandwidth is required when students download tests Bandwidth requirements and recommendations are based on the actual amount of bandwidth available Even with a high-speed communication line, only part of the connection may be available for online testing

Calculating Bandwidths

amount of time it should take the test to load). You can estimate bandwidth requirements by dividing the size of the test by your target wait time (the

The bandwidth calculations that follow are based on the following assumptions:

- A T1 line transfers data at 1.54 Mbps.
- The average test size is 2 MB (16 Mb).
- time longer Note: VSL tests contain audio and video files. These files make the test size larger and the download
- Your target wait time to load a 2 MB test is 20 seconds.
- Approximately 80% of your total bandwidth is available for testing
- All of your students load the test at the same time, instead of staggering log in attempts

Note: You can increase your capacity by increasing the wait time and staggering your log in attempts.

Bandwidth Required with no TSM

within 20 seconds, you would need a total bandwidth of approximately 12 x .8 Mbps, or 9.6 Mbps test in 20 seconds (2 x .8 is just slightly more than 1.54). To have 12 students load their tests simultaneously Each student requires 16 Mb/20 seconds, or .8 Mbps, so approximately two students at a time can load the

Bandwidth Required with a TSM

requirements because you can load the test from the TSM rather than from the DRC server, which greatly increases your capacity. With a TSM, many more students can load the test at a time. A TSM decreases your Internet bandwidth

network traffic, that can impact actual network performance. (1) Important: The bandwidth calculation numbers are estimates. There are many variables, including

Video Sign Language (VSL) Configuration

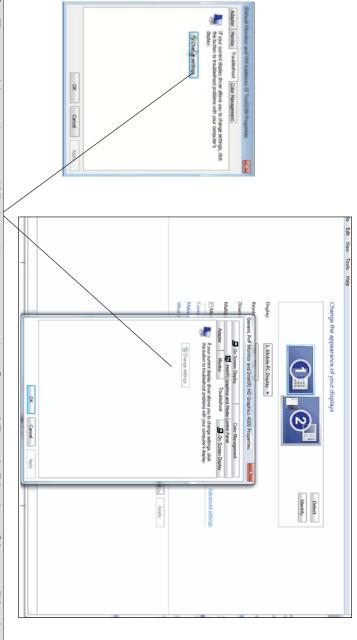
The hardware and software requirements differ for VSL.

- requirements. You can download the VSL content on any machine whose hardware meets the minimum VSL system
- VSL requires a TSM.
- VSL does not run on remote or virtual configurations.
- VSL runs on Windows XP, Windows 7, Windows 8 (non-touch-screen versions), and Mac OS X.
- VSL requires more memory for INSIGHT.
- VSL requires more disk space for the TSM than a standard configuration.

Changing the Monitor Display for VSL

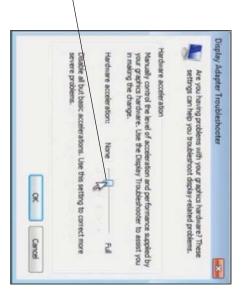
The hardware accelerator is often described as either a graphics card or a video card. is possible with software. This can cause smoother rendering of graphics and better application performance from None to Full. Hardware acceleration uses the computer's hardware to perform certain tasks faster than displaying over the video, you may need to change the testing computer's hardware acceleration setting After you have installed VSL, if the video looks pixelated or there is a semi-transparent grid or halo

Windows 7



-Settings-Advanced settings-Troubleshoot and click the Change Settings button To reset this setting on a Windows 7 computer, select Control Panel-Display-Change Display

change the setting. Note: If the Change Settings button is greyed out, you do not have the necessary permissions to

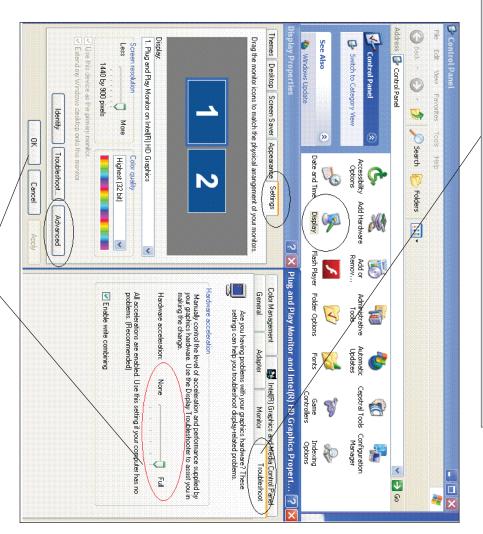


 The Display Adaptor Troubleshooter window displays. Move the Hardware acceleration slider to Full and click OK.

Changing the Monitor Display for VSL (cont.)

Windows XP

To reset this setting on a Windows XP computer, select **Control Panel–Display–Settings–Advanced–Troubleshoot**.



2. The Troubleshoot tab displays. Move the Hardware acceleration slider to Full and click OK.

Text-To-Speech (TTS) Configuration

The hardware and software requirements differ for TTS.

- Schools are responsible for supplying the headphones required for TTS.
- TTS requires a TSM with content caching and response caching.
- TTS does not run on remote or virtual configurations.
- TTS does not run on Windows Vista or Linux.

INSIGHT and Virtual or Remote Desktops

successfully launch and run INSIGHT, you must meet system requirements, such as operating system, processor, disk space, memory, Internet connectivity, screen resolution, and so forth. INSIGHT is a desktop-installed application that runs natively* on specific operating systems. To

operating systems and/or devices, you must implement appropriate security measures to ensure that these environment. However, if your site uses virtual computing technology and runs INSIGHT on unsupported virtual/remote desktops cannot access other applications during the administration of an online assessment. As long as your site meets these requirements, you can run INSIGHT in a virtual or remote desktop

Kiosk Mode and Security

system, its uses Kiosk Mode to "lock down" student access and prevent students from performing environment is the loss of built-in security. When INSIGHT runs on a supported device and operating inappropriate testing activities, such as accessing the Internet. The risk of running INSIGHT on unsupported operating systems and devices in a virtual or remote desktop

ensure that any virtual or remote desktops a student is using cannot access other applications while online computing technology for unsupported operating systems and devices must implement security measures to assessments are being administered. INSIGHT's Kiosk Mode is not available for unsupported operating systems and devices. Sites using virtual

Native Operating Systems

unsupported operating systems. The following table lists the supported operating systems on which INSIGHT runs natively, as well as

Su	Supported Operating Systems	Unsupported Operating Systems
•	Windows XP*	 Other versions of Microsoft
•	Windows Vista	Windows, Mac (OS X), and
•	Windows 7	Linux
•	Windows 8 (including 8.1)**	Google Android
•	Windows Server 2003	 Other UNIX variants
•	Windows Server 2008	
•	Windows Server 2012	
•	Mac (OS X) 10.6*, 10.7, 10.8, 10.9, 10.10	
•	Apple iOS	
•	Google Chrome OS	
•	Linux: Ubuntu 12.04 and 12.04.1	

^{*}See "Support for Windows XP and Mac 10.6.8 (OS X)" on page 38.

^{*}Running natively refers to running without external support, as opposed to running in an emulation

^{**}Only non-touch-screen versions of Windows are supported.

Native Devices

operating systems natively if they meet the minimum system requirements as well as unsupported devices. systems and vice-versa. The following table lists the devices that can currently run INSIGHT-supported INSIGHT also supports many types of computer devices. However, not all devices work with all operating

(1) Important: Except for iPads, only non-touch-screen versions of these devices are supported

Sc	Supported Devices	Unsupported Devices
•	Desktop Computers	• Phones
•	Laptops	• iPods
•	Netbooks	Other Tablets
•	Servers	
•	Chromebooks	
•	iPads	

Virtual Desktop Operating Systems

supported operating systems for INSIGHT. Typically, users access these virtual desktops from another unsupported operating systems for virtual or remote desktop sessions. operating system, on another device, across a network boundary. The following table lists the supported and Beside the physical devices that host operating systems directly, virtual desktops can indirectly host some

S	Supported Operating Systems	Unsupported Operating Systems
•	Microsoft Windows	Google Chrome OS
•	Mac (OS X)	Apple iOS
•	Linux	Google Android
•	nComputing vSpace	PCoIP

Virtual Desktop Devices

systems that INSIGHT supports. that INSIGHT supports. The following table lists the types of devices that can run the various operating device may or may not be capable of supporting INSIGHT natively, or be able to run an operating system The device a student interacts with is actually a gateway to the virtual or remote desktop. However, the

SL	Supported Devices	เนบ	Unsupported Devices*
•	Desktop Computers	•	Chromebooks
•	Laptops	•	Tablets
•	Netbooks	•	Convertible devices and hybrid devices
•	Servers	•	Phones
•	Wyse Thin Clients and Wyse Zero Clients	•	iPods
•	nComputing Devices	•	Other UNIX devices

access the Internet and other resources. operating systems. If you test using unsupported devices, ensure that students cannot [] Important: *Virtual desktop and remote desktop software can access supported

Windows 7 Desktop Font Size Requirements

items display correctly during testing. The following table shows the correct font size setting for testing and how to specify it for the Windows 7 operating system. The testing computers' font size settings must match the test settings to guarantee that line breaks and other

Operating System Font Size Setting		How to Check or Change
Windows 7	100% (Custom DPI)	100% (Custom DPI) Select Control Panel-Appearance and Personalization— Display-Set custom text size (DPI).
		When you click Apply , your new font size setting will be used in your Windows programs.

Enabling ClearType for Windows XP

default on Windows XP. be turned on. ClearType is turned on by default for Windows Vista and Windows 7, but is turned off by For the secure browser to display screen font characters correctly on Microsoft Windows, ClearType should

To turn on ClearType for screen fonts for Windows XP, perform the following steps:

- Select Start-Control Panel-Appearance and Themes-Display.
- 2. On the Appearance tab, click Effects
- ယ Select the Use the following method to smooth edges of screen fonts checkbox and click ClearType

ClearType Tools

The following Microsoft website provides tools to turn ClearType on or off and adjust the contrast:

http://www.microsoft.com/typography/cleartype/cleartypeactivate.htm

Windows 7/Windows XP Taskbar Security Requirement

having access to outside information. For Windows 7 and Windows XP computers, you must be sure the Auto-hide the taskbar setting is turned off to secure the testing computer. During testing, each testing computer is locked down while INSIGHT is active to prevent the student from

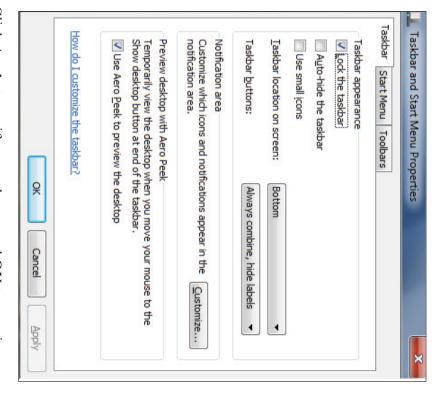
Windows 7

To turn off the **Auto-hide the taskbar** setting on a Windows 7 computer, perform the following steps:

Right-click on the Windows logo on the taskbar and select Properties



2 From the Taskbar tab on the Taskbar and Start Menu Properties dialog box, uncheck the Auto-hide the taskbar checkbox (if it is checked).



3. Click **Apply** to verify your change and **OK** to save it.

Windows XP

To turn off the Auto-hide the taskbar setting on a Windows XP computer, perform the following steps:

- 1. Right-click on the taskbar and select **Properties**.
- 2 From the Taskbar tab on the Taskbar and Start Menu Properties dialog box, uncheck the Auto-hide the taskbar checkbox (if it is checked).



3. Click **Apply** to verify your change and **OK** to save it.

System Requirements and Testing Information

■ Support for Windows XP and Mac 10.6.8 (OS X)

September of 2013. unofficially ended support for Mac OS X level 10.6.8 (Snow Leopard) in windows.microsoft.com/en-US/windows/end-support-help). Apple Microsoft ended support for Windows XP on April 8, 2014 (see http://

immediate security and support risks to its users. no longer receives security updates, which can present both large and When a vendor ends support for an operating system, the operating system

to different operating system levels. DRC assumes no responsibility or support timeline for the transition away from Windows XP and Mac 10.6.8 while making necessary software changes, DRC has established a two-step To accomplish the dual goals of minimizing security risks to our clients liability for this transition or its outcome.

cannot guarantee a resolution. Support team will help troubleshoot issues reported concerning Windows for Windows XP and Mac 10.6.8. Best effort support means that the DRC Between now and September 1, 2015, DRC will offer "best effort" support XP or Mac 10.6.8 and DRC software applications as best we can—DRC

the client must obtain support directly from the software vendor or an issue is related to a client's network, hardware, or third-party software, resolution timeline for software fixes or updates. If DRC determines that Development. Again, we cannot guarantee a fix, software update, or hardware manufacturer. If a bug is uncovered, DRC Support will report the issue to DRC

of DRC software applications will no longer work with Windows XP or software applications. Restricted from use means that the next release After September 1, 2015, DRC will not support Windows XP or Mac Mac 10.6.8. 10.6.8 and they will be restricted from use with the next release of DRC

End of Support

to allow sufficient time for this process migration away from Windows XP and/or Mac 10.6.8 as soon as possible As a result, DRC strongly recommends that all clients affected begin the

Windows Installation

What's Covered in This Chapter

systems. In addition, there are tips and techniques for troubleshooting the Testing Site Manager (TSM) and INSIGHT on Windows operating TSM and INSIGHT installations. This chapter describes the various methods of installing and uninstalling

and uninstalling a TSM and INSIGHT. Then, the chapter provides more advanced technical information about: The first part of this chapter provides basic information about installing

- Managing a TSM—starting, stopping, and uninstalling.
- Working with the TSM in a non-graphical (terminal) mode using Windows operating system commands.
- Uninstalling INSIGHT.

considerations regarding TSM software installation. Because of the role that the TSM plays in testing, there are some special

- you must reconfigure the testing computers that connect to that TSM. static IP address (an address that does not change when the computer is restarted or rebooted). If the IP address of a TSM machine changes, The computer on which you install the TSM software should have a
- the path to the TSM and the communication port during the INSIGHT Install the TSM before you install INSIGHT so that you can specify installation.
- the testing computers that connect to it. If you need to change the configuration of a TSM after it is installed TSM after you have installed INSIGHT, you may need to reconfigure you must uninstall the TSM and install a new version. If you reinstall a

Quick Tour 1: Installing a TSM for Windows OS

install the TSM software. This Quick Tour describes how to install a TSM for Windows. DRC provides an easy-to-use wizard to

installation, sign in to eDIRECT, select Test Setup-General Information-Downloads, and click on the Testing Site Manager (TSM) installer icon () for Windows.

At this time, you also may want to download the INSIGHT Secure Browser Installer for Windows.

Note: If you have another version of the TSM installed, verify that you have the latest version (see "TSM Software Updates" on page 26 and "Uninstalling the TSM" on page 50).

 After you download the installation program, click on TESTING_SITE_ MANAGER_Setup.exe to launch the wizard and start the installation.

The Welcome screen displays the Testing Site Manager (TSM) Setup Wizard. Click **Next** to continue.

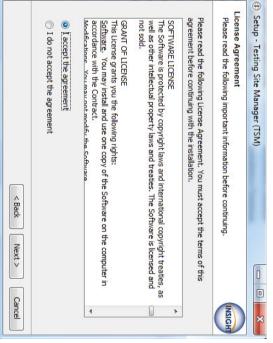
Note: On most installation windows, you have the option of clicking **Back** to return to the previous window or **Next** to proceed to the next window. Some windows display other options.

3. The DRC INSIGHT License Agreement window displays. To continue the installation, you should read the agreement and select the option I accept the agreement. (If you do not accept the agreement, the installation ends.)

When the Next button becomes active, click **Next** to continue.





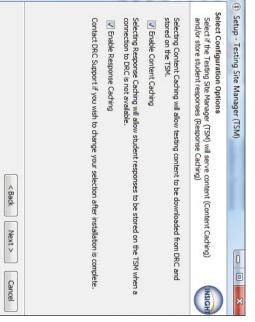


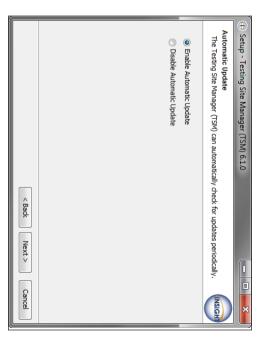
Quick Tour 1: Installing a TSM for Windows OS

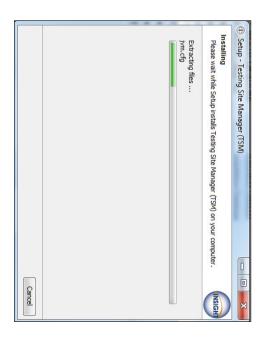
- 4. The Select Configuration Options window displays. On this window you specify whether to enable content caching and/or response caching. The default values are to enable both types of caching. After you make your selections, click **Next** to continue.
- (1) Important: Install the TSM software on a computer that will be powered on when test content is automatically updated. If the computer is not on or is unavailable, it will not be updated. Whenever you restart a computer that has the TSM software installed, or anytime you plan to use the TSM for testing, verify that the TSM software and test content are up to date before you attempt to test (see "Content Caching" on page 136).
- 5. The Automatic Update window displays. On this window, specify whether to enable automatic TSM software updates.
- If you select **Enable Automatic Update** (the default value), DRC updates the TSM software automatically.
- If you select **Disable Automatic Update**,
 DRC notifies you whenever an update to
 the TSM software is available and you must
 update the software manually.
- TSM after it is installed, you must uninstall the TSM after it is installed, you must uninstall the TSM and install a new version. If you reinstall a TSM after you have installed INSIGHT, you may need to reconfigure the INSIGHT configuration properties for the testing computers that use the TSM (see "Setting DRC INSIGHT Properties" on page 169).

Click Next to continue.

6. During the installation, a window displays to indicate the progress of the installation. If necessary, click **Cancel** to end the process.







Quick Tour 1: Installing a TSM for Windows OS

you need this information when you install the TSM server name and port numbers-The Setup Complete window displays. Record from this window. INSIGHT. You can change the port numbers

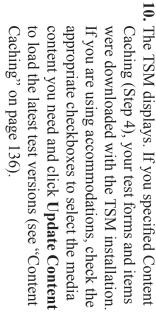
encrypted communication that the INSIGHT secure web browser uses. Click Finish when HTTPS Port Number is the port number for number for regular communication. The TSM you are ready. The TSM HTTP Port Number is the port

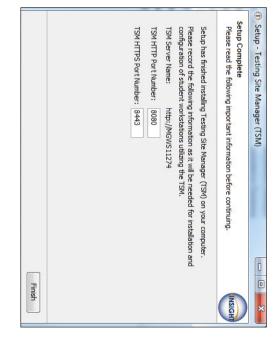
that no other device is using either port. For the list of ports currently being used. netstat -a from a command prompt to display Windows 7, you can enter the command ! Important: To avoid conflicts, verify

 ∞ TestingSiteManager. All Programs-TestingSiteManager-TSM from the Start menu by selecting After the installation is complete, start the

automatically. The TSM will not display until the forms and items for all standard tests can take a few minutes. these forms and items are downloaded, which (no accommodations) are downloaded **Note:** When the TSM is first installed,

- 9. characters) that will help you remember the window displays, enter a name (up to 40 When the Enter Testing Site Manager Name (building and/or room number) of the TSM. you include the district, school, and location field and click Save. DRC recommends that location of the TSM machine in the TSM Name
- to load the latest test versions (see "Content content you need and click Update Content appropriate checkboxes to select the media If you are using accommodations, check the were downloaded with the TSM installation Caching" on page 136). Caching (Step 4), your test forms and items







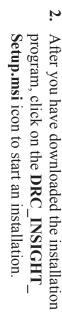
Save	
ite Manager Name	Enter Testing Site Manager Name



install the software This Quick Tour describes how to install INSIGHT for Windows. DRC provides an easy-to-use wizard to

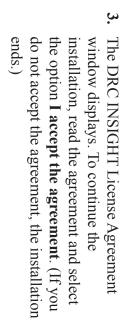
1. If the location used INSIGHT the previous year, verify that you have the latest version (see "INSIGHT Software Updates" on page 26 and "Uninstalling INSIGHT" on page 54).

To launch the wizard and start the installation, sign in to eDIRECT, select **Test Setup–General Information–Downloads**, and click on the DRC INSIGHT Windows Installer icon (
).

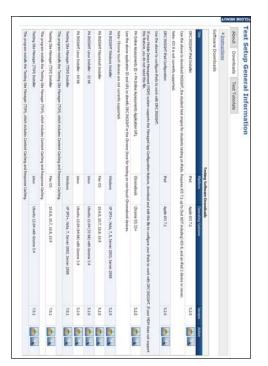


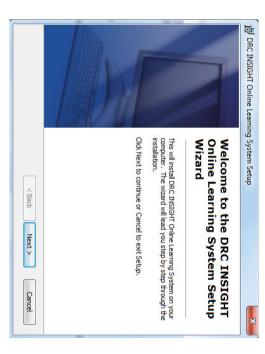
The Welcome screen displays the DRC INSIGHT Online Learning System Setup Wizard. Click **Next** to continue.

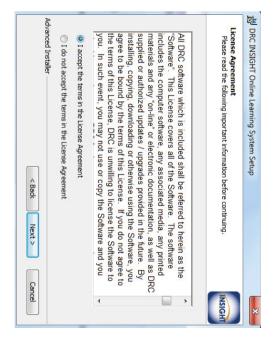
Note: On most installation windows, you can click **Back** to return to the previous window or **Next** to proceed to the next window. Some windows display other options.



Click **Next** to continue when the Next button is active.

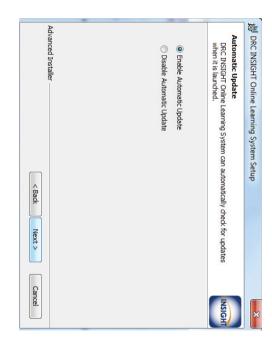






4. The Automatic Update window displays. You use this window to indicate whether to use automatic software updates. Select Enable Automatic Update to use automatic updates (recommended) or Disable Automatic Update to use manual updates.

Click **Next** to continue.



5. The Configure Shortcuts window displays. Use this window to indicate which shortcuts the installation process should create. DRC recommends that you select both shortcuts.

After you have made your selections, click **Next** to continue.



6. The Ready to Install window displays. Click **Back** to review or change your settings, **Install** to start the installation, or **Cancel** to cancel the process.



7. While INSIGHT is being installed, a progress window indicates the state of the installation. If necessary, you can click **Cancel** to end the installation process.



8. When the installation completes, the DRC INSIGHT Online Learning System Setup window displays indicating that INSIGHT is installed.

You can specify whether to run the System Readiness Check (the default value).

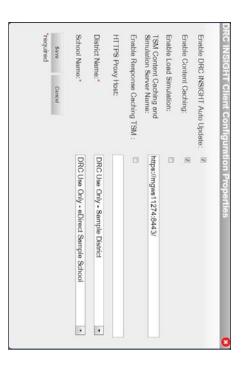
The System Readiness Check verifies that the testing computer has sufficient screen resolution, Internet connectivity, memory (RAM), and other technical specifications needed to perform online testing (see "The System Readiness Check" on page 159).

Make your selections and click **Finish** to end the installation process.

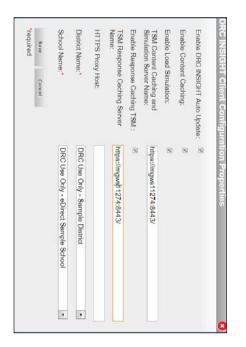
9. When the System Readiness Check launches, the System Information screen displays. You can see details about each test, execute the tests, and view the results (see "Using the System Readiness Check" on page 160).

If you installed one or more TSMs, you can connect to your TSM machines (see Steps 10 and 11). Otherwise, go to Step 11.





- 10. To connect to a TSM, click DRC Properties to display the DRC INSIGHT Client Configuration window (see "Setting DRC INSIGHT Properties" on page 169 for details), enter your changes, and click Save.
- If you specified Content Caching, check Enable Content Caching.
- If you want to perform load simulation testing, check Enable Load Simulation
- Enter the server name (or IP address) and port number of the TSM server in the TSM Content Caching and Simulation Server Name field.
- If you specified Response Caching, check **Enable Response Caching TSM** and enter the server name (or IP address) and port number of the TSM server in the TSM Response Caching Server Name field that displays (see "Quick Tour 1: Installing a TSM for Windows OS" on page 41, Step 7).
- 11. Select the district, and school for the testing computer (required) from the drop-down menus. This information is used for load simulation reports. Click **Save**.
- computer and any TSM(s) are configured correctly. Click **Details** next to any test you need more information about (see "Resolving System Readiness Required Tests" on page 165). When ready, click **Exit**.
- 13. The installation adds one or more shortcuts based on what you specified in Step 5. Use the Online Assessments shortcut to sign in to the Online Tools Training (OTT) or to a test, using your INSIGHT log-in information. Use the Online Tutorials shortcut to access test tutorials.







Managing the TSM

command line, and how to remove a TSM. This section describes how to install a TSM from the command line, how to start and stop a TSM from a

Installing a TSM from the Command Line

it quickly on a number of computers. graphical interface. This type of installation is useful to install the software in unattended mode, or to install You can install a TSM in the Windows environment using the command line interface instead of the

To run the TSM installation in unattended mode, do the following

- directory or location that you specify. Download the TSM setup command file, TESTING_SITE_MANAGER_Setup.exe, from eDIRECT to a
- 2 Start a command prompt (Start-Run-Cmd), navigate to the directory or location where the file was options (see below). downloaded, and execute the TESTING_SITE_MANAGER_Setup command with the appropriate

TESTING_SITE_MANAGER_Setup -q

The following figure shows the list of setup options.

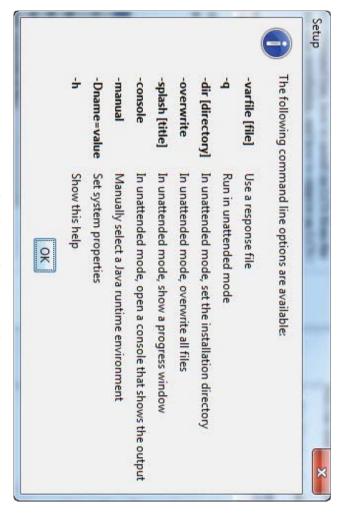
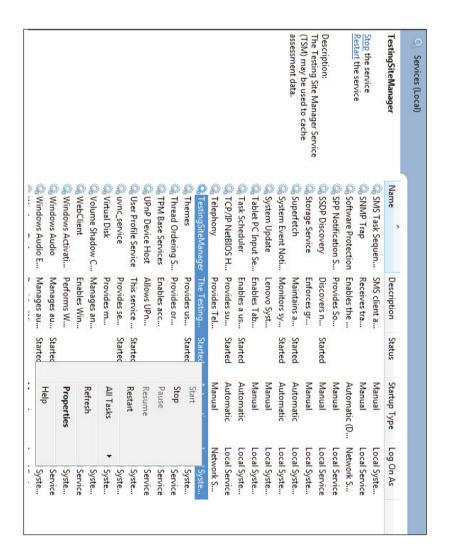


Figure: TSM Setup Command Options

Starting and Stopping the TSM

You can start and stop the TSM using the Control Panel.

For Windows 7, select Control Panel-Administrative Tools-Services



- 12 The Services window displays. Select TestingSiteManager
- $\dot{\omega}$ To stop the TSM, right-click and select Stop. To restart the TSM, right-click and select Start.

Uninstalling the TSM

page 139). responses, the uninstall won't finish (see "Response Caching-Viewing Unsent Student Test Responses" on that there are no unsent responses. If there are, transmit them manually first. If the TSM has unsent stored You can uninstall (remove) the TSM using the Control Panel. If you want to uninstall the TSM, verify

Note: If you are unable to remove a TSM, please contact DRC Technical Support.

Using the Control Panel

To uninstall the TSM using the Control Panel, do the following

- Select Uninstall a Program and select Testing Site Manager (TSM) PA.
- 2. Right-click and select Uninstall/Change.



S Click Next when the Testing Site Manager (TSM) Uninstall wizard displays. The wizard walks you through the process.



Managing INSIGHT

the System Readiness Check, and how to uninstall INSIGHT. This section describes how to install INSIGHT from a command line, how to start and stop INSIGHT and

Installing INSIGHT from a Command Line

Setup.msi-To install INSIGHT from a command line, execute the INSIGHT setup command--using the specific options you want to use. -DRC_INSIGHT_

selecting Run... and specifying DRC_INSIGHT_Setup.msi -h. To display a list of the command line options, use the /h (help) parameter with the setup command by

The following figure shows a list of the standard options.

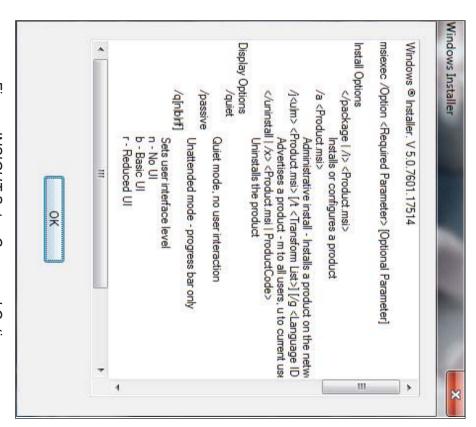


Figure: INSIGHT Setup Command Options

command line syntax. Refer to the Windows Installer Software Development Kit (SDK) for detailed information about the

Windows Installation

INSIGHT Installation Program Options

The following table shows the custom properties that are available for the installation program.

① Important: Ignore the ADMINID and ADMINNAME properties in the DRC Configuration.json file.

Property/Switch	Description	Default Value
AUTOUPDATEFLAG	Enables and disables the automatic update feature.	True
ENABLELCS	Enables and disables a TSM for response caching.	False
	If true, include the LCSURL property to specify the	
	TSM that will perform response caching.	
LCSURL	The URL and secure port of the TSM server that	https://localhost:8443/
	caches test responses. Replace localhost with the	
	name or IP address of the TSM server.	
LOADSIMULATIONENABLE	Specifies that load simulation testing is enabled	True
	for the testing computer. If true, include the	
	CONTENTCACHEENABLE property set to true	
	and the CONTENTCACHE property to specify	
	the TSM that will perform load simulation tests.	
	You also must specify DISTRICT_NAME,	
	DISTRICTID, SCHOOL_NAME, and SCHOOLID.	
DISTRICT_NAME*	The district name for load simulation testing.	None
DISTRICTID*	The district ID for load simulation testing.	None
SCHOOL_NAME*	The school name for load simulation testing.	None
SCHOOLID*	The school ID for load simulation testing.	None
CONTENTCACHEENABLE	Enables and disables a TSM for content caching.	False
	If true, include the CONTENTCACHE property to	
	specify the TSM that will perform content caching.	
CONTENTCACHE	The URL and secure port of the TSM server that	https://localhost:8443/
	caches test content and performs load simulation	
	tests. Replace localhost with the name or IP address	
	of the TSM server.	
HTTPSPROXY	The URL and port of the proxy host server.	Blank
	Depending on your configuration, this URL can start	
	with either http:// or https://.	
/qn (/qb for Windows 8)	Runs the installation in silent mode.	NA

InsightClientRESTServices/ClientRESTService.svc/locations (see below). *Use the name and/or numeric code from the locations file located at https://pa-insight.drcedirect.com/

Using the Locations File

To locate names and IDs for districts and schools, do the following:

- Paste the locations file link into a browser and open it (download the file into a text editor if necessary).
- . Search for the string **district_name** to locate the district name and ID (to the left)
- က Search for the string **school_name** to locate the school name and ID (see below).

{"districtid": "88888", "district_name": "Sample District", "schools": {"schoolid": "8888", "school_ name": "Sample School"}

Installation Command Syntax and Example

The following is the syntax for the install program command:

DRC_INSIGHT_Setup.msi rries> <MSI switches>

Note: All properties are passed in a *key=value* format (see the Example).

<u>=xample</u>

automatic software updates, and specifies a school district, school, and proxy host. the TSM location for each type of caching The following example installs the software in silent mode (the /qn switch [/qb for Windows 8]). It specifies -response and content, enables load simulation testing and

(!) Important: Do not copy and paste this information—it is meant as an example only

msiexec /i DRC_INSIGHT_Setup.msi /qn CONTENTCACHEENABLE="true" School""" HTTPSPROXY="http://10.3.98.61:8081/" CONTENTCACHE="https://10.3.97.11:8443/" SCHOOLID="8888" SCHOOL_NAME="""Sample DISTRICT_NAME="""Sample District""" DISTRICTID="88888" LCSURL="https://10.3.97.11:8443/" LOADSIMULATIONENABLE="true" AUTOUPDATEFLAG="true" ENABLELCS="true"

refer to the Microsoft Command Line options page Note: To see the other MSIEXEC properties and switches that you can use with the installation application,

Starting INSIGHT

Readiness for the System Readiness Check. the installation drive-Program Files (x86)-PA Online Assessments-DRCInsight.exe for INSIGHT, or shortcut, the Windows Start menu, or the Windows Explorer. For Windows 7, start the Explorer and select You can start INSIGHT and the System Readiness Check from a testing computer using the desktop

Stopping INSIGHT

Manager, press Ctrl-Alt-Delete and select Task Manager (see the figure). If INSIGHT becomes unresponsive, you can stop it by using the Windows Task Manager. To start the Task

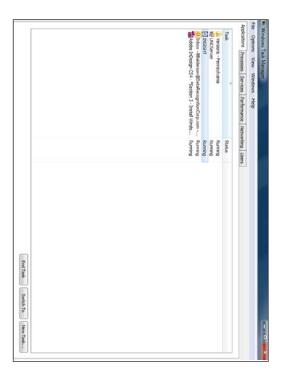


Figure: Task Manager – Windows 7 Environment

Windows Installation

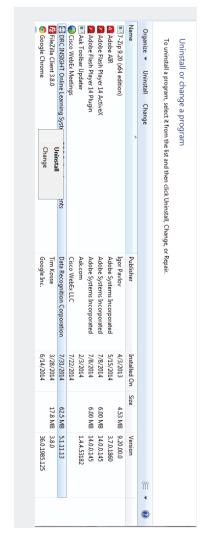
Uninstalling INSIGHT

Uninstaller program, or the Start menu. You can uninstall (remove) INSIGHT from a Windows machine by using the Control Panel, the INSIGHT

Note: If you cannot remove INSIGHT, please contact DRC Technical Support.

Using the Control Panel

Online Learning System-PA Online Assessments, right-click and select Uninstall. To uninstall INSIGHT using the Control Panel, select Uninstall a Program and select DRC INSIGHT



Using the Start Menu

INSIGHT Uninstaller and click Yes when the Windows Installer dialog box displays. To uninstall INSIGHT using the Start Menu, select All Programs-PA Online Assessment System-DRC

Mac (OS X) Installation

What's Covered in This Chapter

environment This chapter describes the installation process in a Mac (OS X)

information about: graphical interface. Then, the chapter provides more advanced technical Testing Site Manager (TSM) and INSIGHT using the standard Mac First, it provides basic information about installing and uninstalling

- Managing a TSM: starting, stopping, and uninstalling
- (OS X) operating system commands Working with a TSM in a non-graphical (terminal) mode using Mac
- Uninstalling INSIGHT.

considerations regarding TSM software installation. Because of the role that the TSM plays in testing, there are some special

- static IP address (an address that does not change when the computer you must reconfigure the testing computers that connect to that TSM. is restarted or rebooted). If the IP address of a TSM machine changes, The computer on which you install the TSM software should have a
- the INSIGHT installation. can specify the path to the TSM and the communication port during You should install the TSM before you install INSIGHT so that you
- the testing computers that connect to it. you must uninstall the TSM and install a new version. If you reinstall a If you need to change the configuration of a TSM after it is installed, TSM after you have installed INSIGHT, you may need to reconfigure

Quick Tour 3: Installing a TSM for Mac OS (OS X)

use wizard to install the TSM software. This Quick Tour describes how to install a TSM in the Mac (OS X) environment. DRC provides an easy-to-

To launch the wizard and start the installation, sign in to eDIRECT, select Test Setup-General Information—Downloads, and click on the Testing Site Manager (TSM) installer icon (♠) for Mac OS. At this time, you also may want to download the Macintosh Installer for INSIGHT.

Note: If you have another version of the TSM installed, verify that is the latest version (see "TSM Software Updates" on page 26 and "Uninstalling the TSM" on page 64).

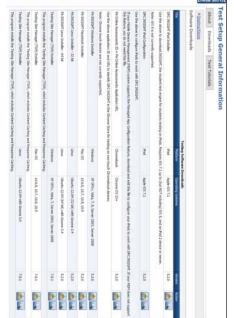
After you have downloaded the installation program, double-click on the TESTING_SITE_MANAGER_Setup. dmg file and double-click on the Testing Site Manager (TSM) Installer to start the installation.

Note: You must be a Mac System Administrator to install the TSM from this file.

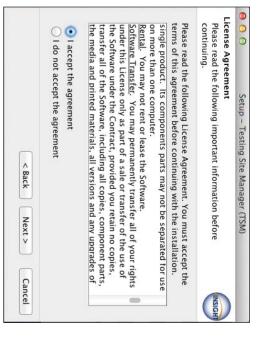
3. The Welcome screen displays for the Testing Site Manager (TSM) Setup Wizard.

Note: On most of the installation windows, you can click **Back** to return to the previous window, **Next** to proceed to the next window, and **Cancel** to cancel the installation. Click **Next** to continue.

4. The DRC INSIGHT License Agreement windows displays. Read the agreement and select the option **I accept the agreement**. When the Next button becomes active, click **Next** to continue.



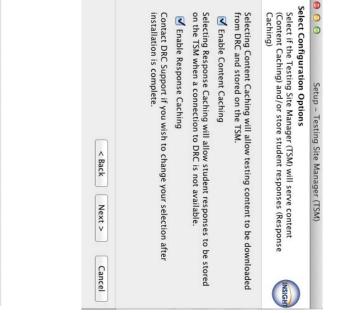




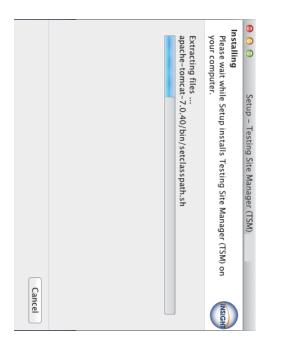
Quick Tour 3: Installing a TSM for Mac OS (OS X)

- displays. On this window you specify whether to enable content caching and/or response caching. The default values are to enable both types of caching. After you make your selections, click Next to continue.
- (1) Important: Install the TSM software on a computer that will be powered on when the TSM software or test content is automatically updated. If the computer is not on or is unavailable, it will not be updated. Whenever you restart a computer that has the TSM software installed, or anytime you plan to use the TSM for testing, verify that the TSM software and test content are up to date before you attempt to test (see "Content Caching" on page 136).
- **6.** The Automatic Update window displays. On this window, specify whether to enable automatic TSM software updates.
- If you select **Enable Automatic Update** (the default value), DRC updates the TSM software automatically.
- If you select **Disable Automatic Update**, DRC notifies you whenever an update to the TSM software is available and you must update the software manually.
- (1) Important: To change the configuration of a TSM after it is installed, you must uninstall the TSM and install a new version. If you reinstall a TSM after you have installed INSIGHT, you may need to reconfigure the INSIGHT configuration properties for the testing computers that use the TSM ("Setting DRC INSIGHT Properties" on page 169).

After you have made your selection, click **Next** to start the installation. During the installation, a window displays to indicate the progress of the installation. If necessary, you can click **Cancel** to end the installation process.







Quick Tour 3: Installing a TSM for Mac OS (OS X)

- 7. When the installation completes, the Setup Complete window displays. Record the TSM server name and port numbers—you need this information when you install INSIGHT. You can change the port numbers from this window.
- The TSM HTTP Port Number is the port number for regular communication.
- The TSM HTTPS Port Number is the port number for encrypted communication that the INSIGHT secure web browser uses.
- (!) Important: To avoid conflicts, verify that no other device is using either port.

Click **Finish** when you are ready.

8. Start the TSM by selecting Applications—
TestingSiteManager—TestingSiteManager.
url.

Note: When the TSM is first installed, the forms and items for all standard tests (no accommodations) are downloaded automatically. The TSM will not display until these forms and items are downloaded, which could take a few minutes.

When the Enter Testing Site Manager Name windows displays, enter a name in the TSM Name field to help you remember the location of the TSM machine. DRC recommends that you include the district, school, and location (building and/or room number) of the TSM. Click Save.

Note: The name is limited to 40 characters with no special formatting requirements.

9. The TSM displays and you are ready to install INSIGHT. After installation is complete, select the TESTING_SITE_MAN volume from the desktop, right-click on it (Ctrl-click) and select Eject "TESTING_SITE_MAN" to unmount the volume and avoid potential conflicts with automatic updates.





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	Previous 1 Next	ANK	AN	Download VSL							



the software This Quick Tour describes how to install INSIGHT on a Mac. DRC provides an easy-to-use wizard to install

1. If the location used INSIGHT the previous year, you should uninstall the old version of the software first (see "Uninstalling INSIGHT" on page 67).

Download the dedicated installer for the Mac (OS X) operating system, DRC_INSIGHT_Setup.pkg, that DRC created. Sign in to eDIRECT, select **Test Setup-General Information–Downloads**, and click on the DRC INSIGHT Macinstosh Installer icon (🛋).

2. Double-click on the downloaded DRC_INSIGHT_Setup.pkg file to start the wizard.

Note: You must be a Mac System Administrator to install INSIGHT.

3. The Welcome screen for the DRC INSIGHT Online Assessments Installer displays.

Note: On most installation windows, you can click **Go Back** to return to the previous window, **Continue** to proceed to the next window, or **Cancel** to cancel the installation. Some windows display other options.

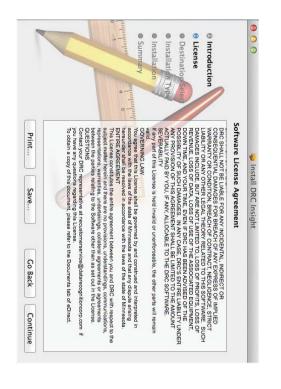
Click Continue.

4. The Software License Agreement window displays. You can read through the Agreement and select a different language from the Language drop-down menu.

To continue, scroll down and read the agreement and click **Agree**, or click **Save**

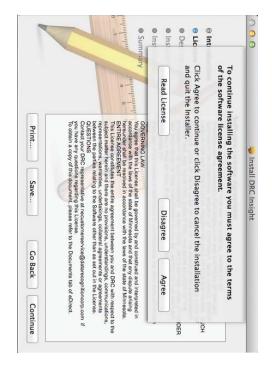






If you click **Continue** without reading the agreement or clicking **Save**, a window displays to verify your choice and explain the options.

To continue, click Agree and Continue.



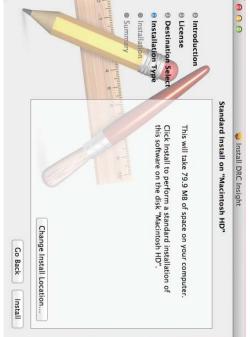
5. The Select Destination window displays, indicating the amount of disk space the installation will require.

Click Continue.



6. The Standard Install on "Macintosh HD" window displays. You can change the installation location, or use the default location

To use the default location, click Install



The installation begins. You must be a Mac System Administrator to install INSIGHT.



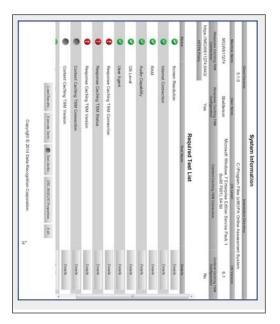
7. After the installation, a summary window indicates the status of the installation.

If the installation was successful, click Close. Otherwise, if necessary, click Go Back to change your installation options.

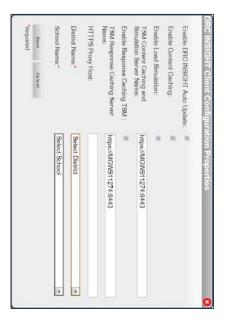


8. When you click **Close**, the System Readiness Check automatically runs and the System Information page displays the results (see "The System Readiness Check" on page 159).

If you installed one or more TSMs, you can connect to your TSM machines (see Steps 9 and 10). Otherwise, go to Step 10.



- 9. To connect to a TSM, click **DRC Properties** to display the **DRC INSIGHT Client Configuration** window (see "Setting DRC INSIGHT Properties" on page 169 for details), enter your changes, and click **Save**.
- If you specified Content Caching, check Enable Content Caching.
- If you want to perform load simulation testing, check **Enable Load Simulation**.
- Enter the server name (or IP address) and port number of the TSM server in the **TSM Content Caching and Simulation Server Name** field.
- If you specified Response Caching, check **Enable Response Caching TSM** and enter the server name (or IP address) and port number of the TSM server in the TSM Response Caching Server Name field that displays (see Step 7 of "Quick Tour 3: Installing a TSM for Mac OS (OS X)" on page 57).
- 10. Select the district, and school for the testing computer (required) from the drop-down menus. This information is used for load simulation reports. Click **Save**.
- 11. Click Execute Tests to verify that the testing computer and any TSM(s) are configured correctly. Click the **Details** button next to any test that you need more information about (see "Resolving System Readiness Required Tests" on page 165). When you are ready, click Exit.
- the desktop. Use the Online Assessments shortcut to sign in to the Online Tools Training (OTT), or to a test, using your INSIGHT log-in information. Use the Online Tutorials shortcut to access test tutorials.











Managing the TSM

This section describes how to start and stop a TSM from a command line, and how to uninstall a TSM.

Starting and Stopping the TSM

TSM is started after installation and launches anytime the computer is booted. MANAGER script. You can use the launchd and launchctl commands to manage services. By default, the Coordinators (TCs) should be familiar with starting and stopping the TSM with the TESTING_SITE The TSM is a service that executes in the background without a standard graphical window. Technology

Uninstalling the TSM

the Testing Site Manager (TSM) Uninstall wizard displays, click Next. Manager (TSM) Uninstaller. First, you must enter your Mac administrator login information. Then, when You can uninstall (remove) the TSM by selecting Applications-TestingSiteManager-Testing Site



Figure: Uninstalling the TSM

Note: If you are unable to remove a TSM, please contact DRC Technical Support.

Managing INSIGHT

how to uninstall INSIGHT. This section describes how to install INSIGHT from a command line, how to start and stop INSIGHT, and

Installing INSIGHT Using a Software Deployment Tool

software The following example shows how to install INSIGHT on a Mac using the Apple Remote DesktopTM

software deployment tools. Note: The Apple Remote Desktop software was used for this example, but the process is similar with other

- Install and configure the INSIGHT secure browser on the computer from which you will be distributing the software (see "Quick Tour 4: Installing INSIGHT for Mac OS (OS X)" on page 60).
- testing computers (see the figure below). need to adjust the permissions on the folders you will be copying before you distribute them to the ① Important: To ensure that testers can access the correct folders on the testing computers, you may

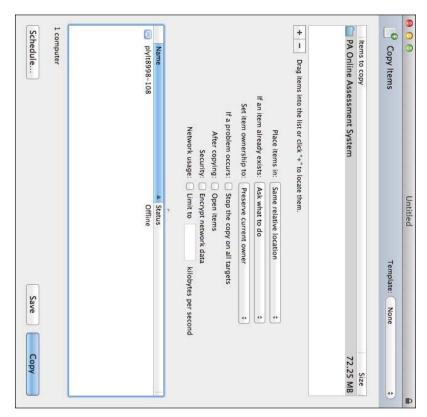


Installing INSIGHT Using a Software Deployment Tool (cont.)

2. Start Apple Remote Desktop and select the following directories in a Copy Items window from the Apple Remote Desktop administrator's computer.

/Applications/PA Online Assessments

permissions (see the figure below). Note: You may need to adjust the destination locations and permissions depending on student's



- **3.** Copy the folders to your list of destination computers.
- 4 the software. Select PA Online Assessments- Readiness from the Applications folder. Verify the installation by running the Software Readiness Check on the computers where you installed

Starting INSIGHT

from the Applications folder by selecting Applications-PA Online Assessments-DRCInsight. You can start INSIGHT from a testing computer by using the desktop shortcut created by the installer, or

Stopping INSIGHT

If INSIGHT becomes unresponsive, the TC may need to stop it using the key combination, Command-Q.

Uninstalling INSIGHT

process silently. You can uninstall (remove) INSIGHT using the Applications folder. You also can run the uninstallation

Using the Applications Folder

and click **OK**. The uninstaller automatically uninstalls the program. You can uninstall (remove) INSIGHT by selecting Applications-PA Online Assessments-DRC Uninstaller. Click **OK** when the dialog box displays and enter your Mac administrator login information

Notes

Linux Installation

What's Covered in This Chapter

This chapter describes the installation process in a Linux environment.

interface. Testing Site Manager (TSM) and INSIGHT using the standard Linux First, it provides basic information about installing and uninstalling the

INSIGHT installation. can specify the path to the TSM and the communication port during the Note: You should install the TSM before you install INSIGHT so that you

Then, the chapter provides more advanced technical information about:

- Managing a TSM: starting, stopping, changing the default communication port, and uninstalling.
- Managing INSIGHT: starting, stopping, and uninstalling.
- Working in the terminal using Linux operating system commands.

Manager software, and the Ubuntu Software Center. are familiar with Linux concepts such as Terminal mode, the Boot-Up Note: In this chapter, we assume that as an experienced Linux user you

considerations regarding TSM software installation. Because of the role that the TSM plays in testing, there are some special

- you must reconfigure the testing computers that connect to that TSM. static IP address (an address that does not change when the computer is restarted or rebooted). If the IP address of a TSM machine changes, The computer on which you install the TSM software should have a
- you must uninstall the TSM and install a new version. If you reinstall a If you need to change the configuration of a TSM after it is installed, TSM, you may need to reconfigure the testing computers that connect

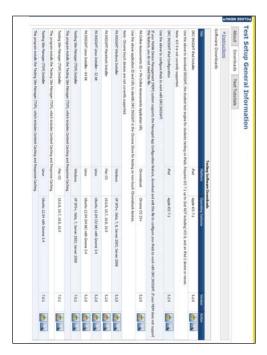
Installing a TSM

Quick Tour 5: Installing a TSM for Linux

before you can run the Wizard. easy-to-use Wizard to install the TSM software. In a Linux environment, you must enter a few commands This Quick Tour describes how to install the Testing Site Manager (TSM) for Linux. DRC provides an

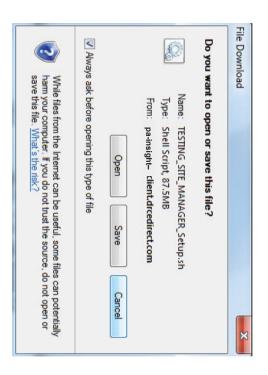
 To launch the Wizard and start the installation, log on to eDIRECT and select Test Setup-General Information— Downloads.

Note: If you have another version of the TSM installed, uninstall it before you install a new version (see "Uninstalling the TSM" on page 80).



Click on the Testing Site Manager (TSM) installer icon (►) for Linux to download the TSM setup shell file—TESTING_SITE_MANAGER_Setup.sh—to the Downloads directory on your testing computer.

Note: Depending on the web browser you are using, a pop-up window may display. If it does, select **Save File** and click **OK**. Other browsers automatically download the installation file to your Downloads folder.



- **3.** Start a terminal and navigate to your Downloads directory.
- 4. Use the **Is** command to verify that the TESTING_SITE_MANAGER_Setup.sh file is in the Downloads directory. If it is not there, download it again.



Quick Tour 5: Installing a TSM for Linux

5. Enter the following command (all Linux commands are case-sensitive) to start the installation:

sudo sh TESTING_SITE_MANAGER_ Setup.sh

The sudo command gives you temporary administrator privileges and allows you to run the shell file.

If prompted, enter your administrator password at the prompt. Linux unpacks the shell file and launches the Wizard to start the installation. The installation program creates an application folder in the /opt or /usr/local directory.

Note: On some 64-bit systems, you must install 32-bit Java libraries for the installation program to run. If you need to install these libraries, enter the command, **sudo apt-get install ia32-libs**

6. The Welcome screen displays for the DRC INSIGHT Testing Site Manager (TSM) Setup Wizard.

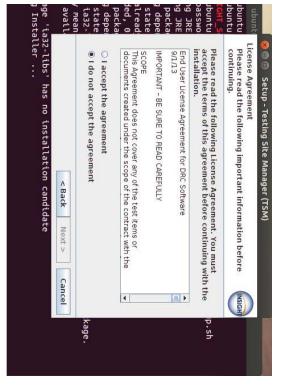
Click Next to continue

7. The DRC INSIGHT License Agreement window displays. To continue the installation, read the agreement and select it by choosing the option **I accept the agreement**. (If you do not accept the agreement, the installation ends.)

When the Next button becomes active, click **Next** to continue.







Quick Tour 5: Installing a TSM for Linux

- 8. The Select Configuration Options window displays. On this window you specify whether to enable content caching (test content) and/or response caching (test responses). The default values are to enable both types of caching. After you have made your selections, click Next to continue.
- (I) Important: If you use content caching, install the TSM software on a computer that will be available when test content is automatically updated. Whenever you restart a computer that has the TSM software installed, or anytime you plan to use the TSM for testing, verify that the TSM content is up to date before you attempt to test (see "Content Caching" on page 136).
- 9. The Automatic Update window displays. On this window, specify whether to enable automatic TSM software updates.
- If you select **Enable Automatic Update** (the default value), DRC updates the TSM software automatically.
- If you select **Disable Automatic Update**, DRC notifies you whenever an update to the TSM software is available and you must update the software manually.

After you have made your selection, click **Next** to continue.

O Important: If you need to change the configuration of a TSM after it is installed, you must uninstall the TSM and install a new version. If you reinstall a TSM after you have installed INSIGHT, you may need to reconfigure the INSIGHT configuration properties for the testing computers that use the TSM (see "Setting DRC INSIGHT Properties" on page 169).





Quick Tour 5: Installing a TSM for Linux

10. During the installation, a window displays to indicate the progress of the installation. If necessary, you can click **Cancel** to end the installation process.

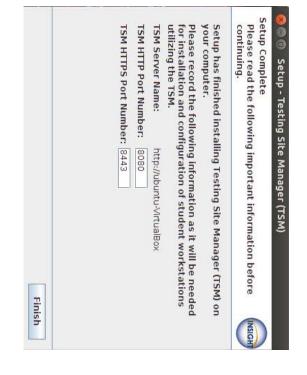
When the installation completes, the Setup Complete window displays.

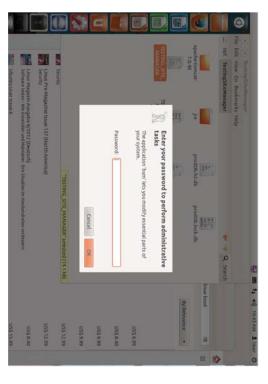
Record the TSM server name and port numbers. You need this information when you install INSIGHT. You can change the port numbers from this window.

- The TSM HTTP Port Number is the port number for regular communication.
- The TSM HTTPS Port Number is the port number for encrypted communication that the INSIGHT secure web browser uses.
- **① Important:** To avoid potential conflicts, be certain no other device is using either port. You can change the port numbers from this window.

Click **Finish** when you are ready.

- 11. Open the Linux Boot-Up Manager. You may need to provide your administrator password.
- 12. Locate TESTING_SITE_MANAGER in the list, select it, right-click and select **Start Now**. When the Service started pop-up dialog displays, click **OK**.







Quick Tour 5: Installing a TSM for Linux

13. Start a browser and enter the following address into the address bar of a web browser:

Elle Edit View History Bookmarks Tools 1

Ocontent Caching

Content Caching

Content Caching

→ CP SI → Google

0 0

http://servername:8080/

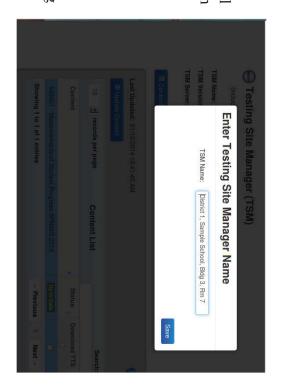
Where *servername* is the TSM server Name from Step 10. In our example, it is **ubuntu-VirtualBox**.

Note: When the TSM is first installed, the forms and items for all tests are downloaded automatically. The TSM will not display until these forms and items are downloaded, which could take a few minutes.

When the Enter Testing Site Manager Name windows displays, enter a name in the TSM Name field that will help you remember the location of the TSM machine and click **OK**.

The name you choose is limited to 40 characters and there are no special formatting requirements (see "Using the TSM" on page 133).

Note: DRC recommends that you include the district, school, and location (building and/or room number) of the TSM.



14. The TSM displays. If you specified Content Caching (Step 4), your test forms and items were downloaded with the TSM installation.

If you are using optional accommodations such as Text-to-Speech (TTS) or Video Sign Language (VSL), select the media content you need (the status of the corresponding test changes to Out of Date).

Click **Update Content** to load the latest test versions (see "Content Caching" on page 136). When the TSM updates the content cache, the Status field changes from Out of Date to Up to Date.

You are ready to install INSIGHT.



Quick Tour 6: Installing INSIGHT for Linux

provides an easy-to-use Wizard to install the INSIGHT software. In a Linux environment, you use the Ubuntu Software Center to run the Wizard. This Quick Tour describes how to install the DRC INSIGHT Online Learning System for Linux. DRC

installation, log on to eDIRECT, select Test
Setup—General Information—Downloads,
and click on the DRC Linux Installer icon

(☑) to download the INSIGHT setup file—
DRC_INSIGHT_Setup_i386.deb (32-bit) or
DRC_INSIGHT_Setup_amd64.deb (64-bit)—to the Downloads directory on your testing computer.

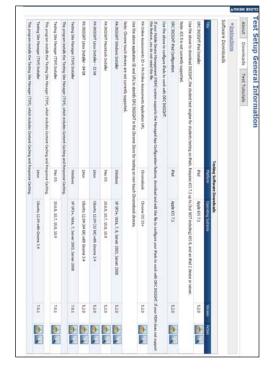
If the location used INSIGHT the previous year, you should uninstall the old version of the software first (see "Uninstalling INSIGHT Using the Synaptic Package Manager" on page 83).

2. The Opening DRC_INSIGHT_Setup_ i386.deb dialog box displays (for 32-bit machines). The file for 64-bit machines is DRC_INSIGHT_Setup_amd64.deb.

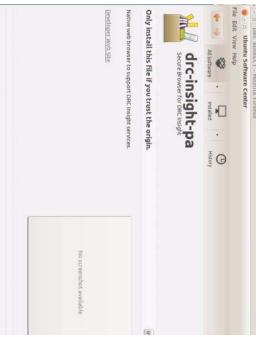
Select Open with Ubuntu Software Center (default) if it is not selected and click OK.

Note: Some browsers do not display a dialog box and load the installation file directly to your Downloads folder.

3. When the Ubuntu Software Center window displays, click **Install**.







Quick Tour 6: Installing INSIGHT for Linux

4. The Authenticate dialog box displays. Select your username from the drop-down menu, enter your password and click **Authenticate**.



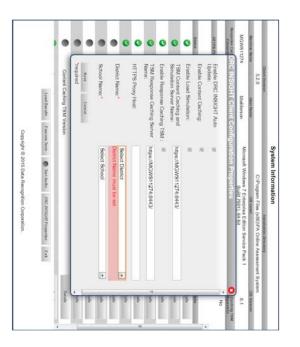
5. The DRC License Agreement window displays. Check the I accept the License agreement checkbox and click Forward. The INSIGHT installation starts.

6. When INSIGHT is successfully installed, the System Readiness Check displays. (You also can run the System Readiness Check by going to the Online Assessment System directory and clicking on **Readiness**.)

To connect to a TSM, click **DRC Properties** to display the **DRC INSIGHT Client Configuration** window (see "Setting DRC INSIGHT Properties" on page 169 for details), enter your changes, and click **Save**.

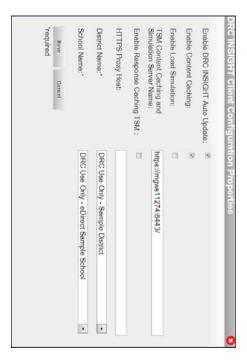
- If you specified Content Caching, check **Enable Content Caching** and enter the secure path to that TSM server.
- If you will be using Load Simulation, check Enable Load Simulation and enter the secure path to that TSM server.
- If you specified Response Caching, check **Enable Response Caching TSM** (see Step 10 of "Quick Tour 5: Installing a TSM for Linux" on page 71).





Quick Tour 6: Installing INSIGHT for Linux

7. Select your school district and school from the drop-down menus. This information is required and will be used for load simulation reports. Click **Save**.



- 8. Click Execute Tests to verify that the testing computer and any TSM(s) are configured correctly. Click the **Details** button next to any test that you need more information about (see "Resolving System Readiness Required Tests" on page 165).
- **9.** The System Readiness Check runs and displays the results for the testing computer.

You can click **Details** to view the details of a test, or click **Execute Tests** to rerun the tests (see "The System Readiness Check" on page 159)

When you are ready, click Exit.



Managing the TSM

This section describes how to start and stop the TSM from a command line and how to remove a TSM

Starting and Stopping the TSM from the Terminal

shown in the following example: After the TSM software is installed, the Linux Administrator must start the associated service. Administrator can start or stop the TSM services in Terminal mode by using the start and stop commands as The Linux

sudo /opt/TestingSiteManager/TESTING_SITE_MANAGER start sudo /opt/TestingSiteManager/TESTING_SITE_MANAGER stop

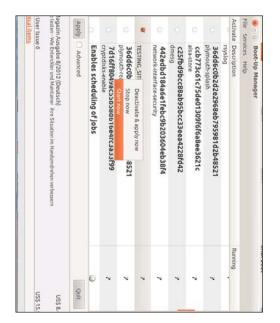
Starting and Stopping the TSM Using the Boot-Up Manager Software

launch a service automatically on startup A Linux Administrator also can use the Boot-Up Manager to stop or start a service, and define whether to

from the Ubuntu Software Center, or by using the apt-get install bum command Note: The Boot-Up Manager software is installed automatically with the TSM. You also can install it

following: To start the TSM service, stop the TSM service, or launch the TSM service automatically at startup, do the

- **1.** Start the Boot-Up Manager.
- 2. Locate TESTING_SITE_MANAGER
- S Check the Activate checkbox to launch the service automatically on startup. To start or stop the service, right-click and select Start now or Stop now.



Linux Installation

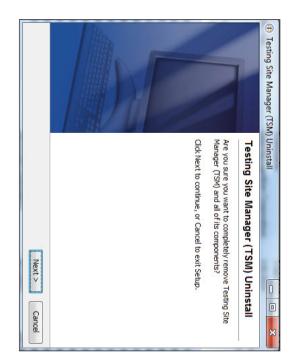
Uninstalling the TSM

any unsent responses, you cannot uninstall the TSM. Before you attempt to uninstall the TSM, verify that there are no unsent responses in the TSM. If there are

To uninstall the TSM, perform the following steps:

- 1. Start Terminal mode.
- 2. Navigate to the TSM directory, /opt/TestingSiteManager.
- 3. Enter the command sudo sh uninstall
- 4 when you are done. Click Next when the Uninstall Wizard displays (see the figure), follow the prompts, and click Finish

the user home folder. You can ignore these files, or delete them using the rm command. Note: The uninstallation process may leave log or configuration files in the installation directory or



Uninstalling the TSM

Note: If you are unable to remove a TSM, please contact DRC Technical Support.

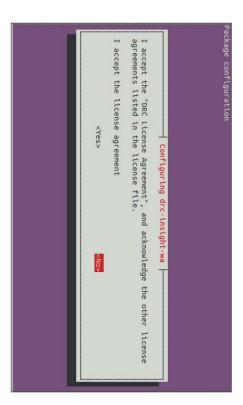
Managing INSIGHT

INSIGHT using the Synaptic Package Manager or by command. This section describes how to install INSIGHT from the terminal or command line, and how to uninstall

Installing INSIGHT Using the Terminal

To install INSIGHT in the Terminal, do the following:

- Log on to eDIRECT, select Test Setup-General Information-Downloads and click on the Linux machines, or DRC_INSIGHT_Setup_amd64.deb for 64-bit machines-Installer icon to download the INSIGHT setup file—DRC_INSIGHT_Setup_i386.deb for 32-bit -to your testing computer.
- Save File. Other browsers automatically download the installation file to your Downloads folder. Note: Depending on the web browser you are using, a pop-up window may display. If it does, click
- 2. Open the Terminal and navigate to your Downloads directory.
- ယ Enter the command sudo dpkg -i DRC_INSIGHT_Setup_i386.deb or DRC_INSIGHT_Setup_ amd64.deb and press Enter.
- 4 Tab to the Yes field under I accept the license agreement and press Enter



Linux Installation

Installing INSIGHT from a Command Line

directory where the installer is located. The INSIGHT installation places a silent install shell script (silent_installer.sh) in the install directory. You can use this file to silently install INSIGHT in a Linux environment. Move the silent installer to the

INSIGHT Installation Program Options

The following table shows the custom properties available for the installation program

<u>↓</u> .	n-	-c	-S	-d	-a	-р	<u>.</u>	Property
Enables Content Cache for Load Simulation	Enables Content Caching	Content Cache URL	School ID	District ID	Auto update	HTTPs Proxy Host	LCSURL	Specifies
Specified that load simulation testing is enabled for the testing computer. If this is true, include the CONTENT CACHE URL property to specify the TSM that will perform load simulation tests. You also must specify the District ID and School ID.	Enables and disables a TSM for content caching. If this is true, include the CONTENTCACHE property to specify the TSM that will perform content caching.	The URL and secure port of the TSM server that caches test content and performs load simulation tests. Replace localhost with the name or IP address of the TSM server.	Specifies the School ID for Load Simulation Testing. You must use the School ID code that DRC has listed for your site in the locations file.	Specifies the District ID for Load Simulation Testing. You must use the District ID code that DRC has listed for your site in the locations file.	Enables and disables the automatic update feature.	The URL and secure port of the proxy host server.	The URL and secure port of the TSM server that caches test responses. Replace localhost with the name or IP address of the TSM server.	Description
False	False	None	None	None	False	None	None	Default Value

Installation Command Syntax and Example

The following is the syntax for the install program command:

silent_installer.sh <properties>

specifies a school district ID, a school ID, enables automatic software updates, and specifies a proxy host. specifies the TSM location for each type of caching—response and content, enables load simulation testing, the install file and the silent_installer.sh file are located. The example installs the software in silent mode, The following is an example of the command you would run using the terminal from the folder where both

sudo sh silent_installer.sh -I "https://responsetsm:8443" -p "https://proxyserver:34543" -a true -c "https://contenttsm:8443" -u true -i true -d 88888 -s 8883

Uninstalling INSIGHT Using the Synaptic Package Manager

packages. The Synaptic Package Manager is a graphical Linux tool to help you uninstall and remove software

Note: You can install the Synaptic Package Manager by using the Ubuntu Software Center.

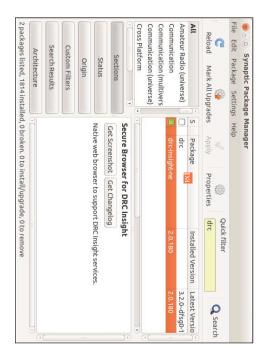
To uninstall INSIGHT, perform the following steps:

-Start the Synaptic Package Manager by clicking on the Synaptic Package Manager icon in Applications.

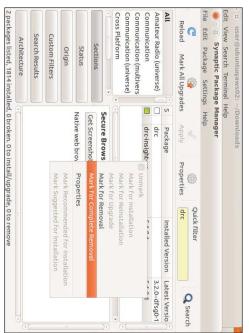


Uninstalling INSIGHT Using the Synaptic Package Manager (cont.)

From the Synaptic Package Manager, search for the string drc in the Quick Filter window.

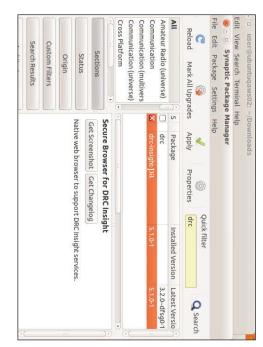


 ω Select drc-insight-pa and right-click on it. In the drop-down menu that displays, select Mark for Complete Removal.



Uninstalling INSIGHT Using the Synaptic Package Manager (cont.)

4 A red icon with a white x inside of it displays next to drc-insight-pa. On the Synaptic Package Manager toolbar, click Apply.

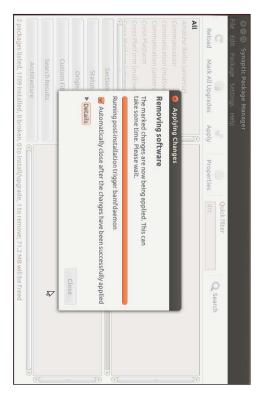


S configuration files) and click Apply. The Apply the following changes? dialog box displays. Select To be completely removed (including



Uninstalling INSIGHT Using the Synaptic Package Manager (cont.)

The Synaptic Package Manager removes the INSIGHT software package (drc-insight-pa).



please contact DRC Technical Support. to remove, you can remove them using the rm command (see Cleanup below). If you have any questions, Note: After you are finished uninstalling INSIGHT, if you see any files or folders remaining that you want

Uninstalling INSIGHT Manually

apt-get. To remove INSIGHT, you can use the following command in terminal mode: In a Linux environment, the command line tool for adding, removing, and updating software packages is

sudo apt-get remove drc-insight-pa

Cleanup

following command from a Linux terminal to fully uninstall INSIGHT and remove its files. exists when you attempt a new installation, the settings for the new installation will not take effect. Use the The Linux apt-get uninstall may leave files behind, such as the drcconfiguration.json file. If this file still

sudo rm -rf /opt/PA\ Online\ Assessment\ System/

space. Note: For commands entered from a Linux terminal, the combination of backslash space (\) indicates a

Installing and Configuring INSIGHT on iPad Devices

What's Covered in This Chapter

Distributing and Configuring INSIGHT to iPad Devices

> about installing INSIGHT and configuring it to use the Testing Site for iPad devices in an iOS environment. It provides detailed information Manager (TSM). This chapter describes the process of installing and configuring INSIGHT

with the INSIGHT App-There are two main parts to the process of setting up an iPad device to test -distribution and configuration.

- must use a Mobile Device Management (MDM) software tool. To distribute (deploy) the INSIGHT App (DRC INSIGHT.ipa) you
- enterprises devices deployed across mobile operators, service providers, and MDM software can secure, monitor, manage, and support mobile
- To configure the iPad to work with the INSIGHT App, you have two
- centrally configure multiple iPad devices using the MDM software. configuration file to all of the iPad devices. In other words, you can feature, you can use the MDM software to deploy the INSIGHT If your MDM software supports the Managed App Configuration
- manually edit the configuration on each device. to send the same TSM configuration to multiple iPads than to same configuration file to the iPads. It is easier and less error-prone Configuration feature is the preferred method of distributing the Using an MDM software tool with the Managed App
- configure each iPad by using the System Readiness Check. the INSIGHT App to the iPad devices, but you must manually Configuration feature, you can use the MDM software to distribute If your MDM software does not support the Managed App

Installing and Configuring INSIGHT Using an MDM Solution

using an MDM solution is summarized below. This process assumes that all the iPads using the MDM tool. you have already installed and set up an MDM solution and have enrolled The process of installing and configuring INSIGHT on multiple iPads To install INSIGHT on one or more iPads you must use MDM software.

must configure your iPads manually. iOS 7). This feature is necessary to perform Steps 2 and 3. Otherwise, you must support the Managed App Configuration feature (first introduced in and configure your DRC INSIGHT iPad software, your MDM software **Dimportant:** There are many versions of MDM software. To *deploy*

1. Configure the iPad Group

and Auto-Capitalization, and enable/activate Guided Access. group to turn off Check Spelling, Predictive Text, Auto-Correction, If your MDM software allows, within the MDM configure the iPad

com/en-us/HT204271. and key values with supervised devices, refer to http://support.apple. predictive keyboard. For more information about using these options highlighted words, spell check and auto-correction while typing, and you can use key values to disable access to definition lookup for definition features for supervised iPad devices. For these devices, configuration profile options to restrict access to spelling and (1) Important: For iOS levels 8.1.3 and higher, Apple introduced

2. Configure INSIGHT

other configuration information for the iPad group (see "Installing and edit the configuration file to specify your TSM connection and configuration (ManagedAppConfig.plist) files from DRC eDIRECT INSIGHT for iOS Using an MDM Solution" on page 93). Download the DRC INSIGHT executable (DRC INSIGHT.ipa) and

3. Deploy INSIGHT

to your iPads using your MDM software Deploy the DRC INSIGHT executable and edited configuration files

Installing and Configuring INSIGHT Using an MDM Solution (cont.)

4. Prepare the iPads for Testing

keyboard that is active. not, disable them. Also verify that the English keyboard is the only Auto-Correction, and Auto-Capitalization are disabled. If they are General-Keyboard to verify that Check Spelling, Predictive Text, When you are ready to start testing, start the iPad and use Settings—

required, pair the iPad with one. Launch the DRC INSIGHT App. Accessibility-Learning-Guided Access to turn it on and select Set Mode (required for testing). If it is not, specify Settings-General-Passcode to set the passcode. If an external Bluetooth keyboard is Verify that the Guided Access feature is on to put the iPad into Kiosk

must provide a numeric passcode. This same passcode information is necessary to exit the INSIGHT App during or after testing Note: To put the iPad into Kiosk Mode, Technology Coordinators

■ Installing INSIGHT Using an MDM Solution and Configuring It Manually

the MDM software. installed and set up the MDM software and have enrolled all the iPads using it manually is summarized below. This process assumes that you have already The process of installing INSIGHT using an MDM solution and configuring

1. Configure the iPad Group

enable/activate the Guided Access feature. Spelling, Predictive Text, Auto-Correction, and Auto-Capitalization, and If your MDM software allows, configure the iPad group to turn off Check

supervised devices, refer to http://support.apple.com/en-us/HT204271. spell check and auto-correction while typing, and predictive keyboard. key values to disable access to definition lookup for highlighted words, configuration profile options to restrict access to spelling and definition features for supervised iPad devices. For these devices, you can use For more information about using these options and key values with ① Important: For iOS levels 8.1.3 and higher, Apple introduced

2. Download the DRC INSIGHT Executable File

DRC eDIRECT. Download the DRC INSIGHT executable (DRC INSIGHT.ipa) file from

3. Deploy INSIGHT

software. Deploy the DRC INSIGHT executable to your iPads using your MDM

4. Configure INSIGHT Manually

Edit the configuration of each iPad device manually by using the System Readiness Check (see "Configuring an iPad Manually" on page 101).

5. Prepare your iPads for Testing

that is active. disable them. Also verify that the English keyboard is the only keyboard Auto-Correction, and Auto-Capitalization are disabled. If they are not, General-Keyboard to verify that Check Spelling, Predictive Text, When you are ready to start testing, start the iPad and use Settings-

6 external keyboard. Launch the DRC INSIGHT App. the passcode. If an external keyboard is required, pair the iPad with an Verify that Guided Access is on to put the iPad into Kiosk Mode (required Learning-Guided Access to turn it on and select Set Passcode to set for testing). If it is not, specify **Settings-General-Accessibility**

necessary to exit the INSIGHT App during or after testing a passcode (numeric password). This same passcode information is Note: To put the iPad device into Kiosk Mode, TCs must provide

iPad Installation

Installing a TSM

considerations regarding TSM software installation. Because of the role that the TSM plays in testing, there are some special

- restarted or rebooted) if you are using the machine IP address instead connect to that TSM. TSM machine changes, you must reconfigure the testing devices that of the machine name to connect to the TSM. If the IP address of a static IP address (an address that does not change when the computer is The computer on which you install the TSM software should have a
- the INSIGHT installation. can specify the path to the TSM and the communication port during You should install the TSM before you install INSIGHT so that you
- the testing devices that connect to it. you must uninstall the TSM and install a new version. If you reinstall a If you need to change the configuration of a TSM after it is installed, TSM after you have installed INSIGHT, you may need to reconfigure

A TSM is used primarily to cache and manage test content and responses. when you install INSIGHT on the iPad device. PC, Mac (OS X) computer, or Linux machine and connect to the TSM for a TSM. As a result, you should install the TSM software on a Windows For various reasons, iPad devices do not provide a suitable environment

installation chapter. For specific TSM installation instructions, refer to the appropriate

Installing INSIGHT for iOS Using an MDM Solution

not support this feature, you must configure INSIGHT manually (see "Configuring an iPad Manually" on use an MDM solution that supports the Managed App Configuration feature. If your MDM software does configure INSIGHT from a central location and distribute the configuration to one or more iPads, you must You install INSIGHT on one or more iPads using Mobile Device Management (MDM) software.

with the Managed App Configuration feature. The following steps describe the process of installing and configuring DRC INSIGHT using an MDM tool

- **l.** Install an MDM solution.
- 2. Enroll the iPads using the MDM tool.
- If the MDM software allows you to configure the iPad group, make the following system settings
- Turn Check Spelling off.
- Turn Predictive Text off and delete the Emoji keyboard (see "iOS 8-Predictive Text and the Emoji Keyboard" on page 97).
- Turn Auto-Correction off.
- Turn Auto-Capitalization off.
- Enable and activate Guided Access.

and key values with supervised devices, refer to http://support.apple.com/en-us/HT204271. auto-correction while typing, and predictive keyboard. For more information about using these options you can use key values to disable access to definition lookup for highlighted words, spell check and restrict access to spelling and definition features for supervised iPad devices. For these devices, [] Important: For iOS levels 8.1.3 and higher, Apple introduced configuration profile options to

Notes

- deployment process. You still must enable Guided Access at testing time Some MDM software allows you to configure Guided Access as part of the iPad software
- or after testing (see "Working with Guided Access" on page 96). (numeric password). This same passcode information is necessary to exit the INSIGHT App during To put the iPad device into Kiosk Mode, Technology Coordinators (TCs) must provide a passcode
- Go to https://pa.drcedirect.com, log on, and download the DRC INSIGHT executable (DRC Information—Downloads INSIGHT.ipa) and configuration (ManagedAppConfig.plist) files from Test Setup-General

Installing INSIGHT for iOS Using an MDM Solution (cont.)

S In the MDM software, edit the DRC INSIGHT configuration file to supply the values for your TSM whenever you install DRC INSIGHT and contains the parameters you specified when you used the configuration. You must use the values from the DRCConfiguration json file. This file is created System Readiness Check to configure INSIGHT and the TSM.

file in the following directories and skip to Step 9. Otherwise, go to Step 6. If DRC INSIGHT is already installed on a Windows, Mac (OS X), or Linux machine, you can locate the

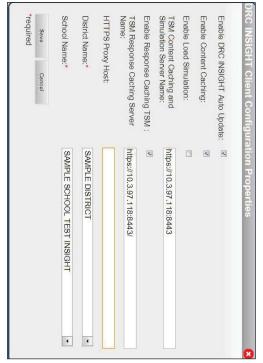
C:\Program Files\PA Online Assessment System\DRCConfiguration.json (32-bit) Windows: C:\Program Files (x86)\PA Online Assessment System\DRCConfiguration.json (64-bit) or

Mac (OS X): Applications/PA Online Assessment System/DRCConfiguration.jsor

Linux: /opt/PA Online Assessment System/DRCConfiguration.json

- 6. At this point, you have two options. You can install DRC INSIGHT on a Windows, Mac, or Linux-based use this information to edit the ManagedAppConfig.plist file (Step 9). Installation Program Options" on page 99 for a description of the parameters that are in the .json file and desktop computer (not on a Chromebook or iPad) and perform Steps 7-11. Or, refer to "INSIGHT
- .7 Start the System Readiness Check by selecting All-Programs-PA Online Assessment System-System Information page. Readiness (Windows), or /Applications/PA Online Assessment System/Readiness (Mac), or /Opt/PA Assessment System/Readiness (Linux), and click DRC INSIGHT Properties in the
- ∞ Configure access to the TSM using the drop-down menus and fields from the DRC INSIGHT Client Configuration Properties dialog box and click Save to save your changes

Manually" on page 101). The values from this page are used to create the DRCConfiguration.json file (see "Configuring an iPad



- 9 Open the DRCConfiguration.json file and the ManagedAppConfig.plist file in a text editor and copy the values from the DRCConfiguration.json file into the ManagedAppConfig.plist file
- 10. Using the MDM's deployment feature, distribute the executable and the edited configuration files—DRC INSIGHT.ipa and ManagedAppConfig.plist—to the iPad devices in the group.

Installing INSIGHT for iOS Using an MDM Solution (cont.)

- 11. After you have finished deploying INSIGHT, verify that check Spelling, Predictive Text, Auto-Correction, and Auto-Capitalization are disabled and disable them if necessary.
- 12. Verify that Guided Access is configured (required to put the iPad into Kiosk Mode for testing). To configure Guided Access, specify Settings-General-Accessibility-Learning-Guided Access. Turn Guided Access on and select Set Passcode to set the passcode.
- 13. An external keyboard is recommended for testing and required for assessments that include manually pair each iPad device with an external keyboard. is required and you did not use the MDM software to pair the iPad device with an external keyboard, constructed-response items (tests containing questions that require text entry). If an external keyboard

Note: Both wired and wireless keyboards are supported for testing.

14. Launch the DRC INSIGHT App and triple-click the Home button quickly to enable Guided Access.

Working with Guided Access	This section describes some helpful hints for working with the Apple Guided Access feature. Refer to Guided Access documentation for additional information.
☐ Configuring Guided Access	9
	 Turn Guided Access on and click Set Passcode. Enter and re-enter a four-digit passcode. You need this passcode to enter and exit an INSIGHT session on an iPad while testing. Click the Home button to exit Settings.
☐ Enabling Guided Access	 To enable the Guided Access feature, do the following: Open the INSIGHT App. Triple-click the Home button quickly. The message Guided Access Enabled displays and the user cannot leave the App.
	 To exit the INSIGHT App, triple-click the Home button quickly and enter the four-digit passcode you used to configure Guided Access. The screen display changes and allows you to End (end the App) and Resume (resume the App with Guided Access activated). Press End to end the App and Exit to exit INSIGHT.
□ Parts of TouchscreenDisabled	 To troubleshoot touchscreen issues, do the following: Triple-Click the Home button. Enter the four-digit Guided Access passcode. Verify that Ignore All Screen Touches is disabled.
	 3. Verify that Ignore All Screen Touches is disabled. 4. Check for gray circles on the screen. If any exist, delete them. 5. Press Resume.
□ Enable Volume Rocker	 To enable the volume rocker, do the following: Triple-click the Home button. Enter the four-digit Guided Access passcode. Select Options. Turn on the Volume. Press Resume.

SOI ထု Predictive Text and the Emoji Keyboard

system software uses this menu to attempt to predict the word the user is typing. Instead of having to type the into the text. entire word, the user can tap the box above the keyboard that contains the suggested word to insert the word feature is enabled, the operating system displays a menu above the iPad's internal keyboard. The operating The iOS 8 level of Apple's mobile operating system provides a feature called Predictive Text. When this

over other students. be disabled to ensure the validity of student test results. Failure to do so may give some students advantages keyboard to prevent the operating system from enabling the Predictive Text feature again. This feature must (1) Important: If you test using iOS 8, you must disable the Predictive Text feature and delete the Emoji

Disabling Predictive Text

To disable the Predictive Text feature, do the following:

Select Settings-General-Keyboard-Predictive.

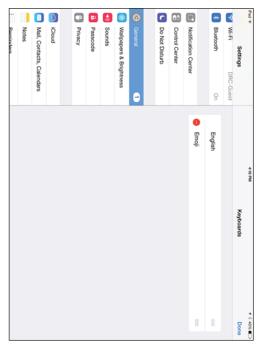


2. Turn **Predictive** off.

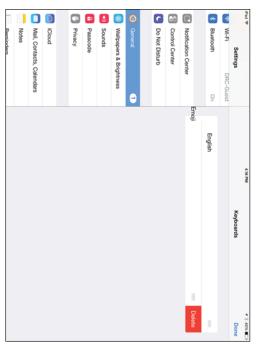
Deleting the Emoji Keyboard

keyboard. To delete the Emoji keyboard, do the following: To disable Predictive Text and prevent it from being re-enabled in iOS 8, you also must delete the Emoji

Select Settings-General-Keyboard-Keyboards-Edit (top right corner). The Edit display changes to Done and a red Remove icon () displays next to Emoji.



2 Press the red Remove icon (and press **Delete** when it displays.



- 3. Verify that the student is using an English keyboard.
- 4. Click the Home button to exit Settings.

INSIGHT Installation Program Options

The following table shows the custom properties that are available for the installation program.

Configuration.json file. DImportant: Ignore the adminId, adminName, and requireLatestVersion properties in the DRC

	The sales of the last of the desired of the sales of the	2 1 2 1 2 1 2 1 2 1 2 1 2 2 2 2 2 2 2 2
None	The school ID for load simulation testing.	schoolId*
	districtName, districtId, schoolName, and schoolId.	
	that will perform load simulation tests. You also must specify	
	set to true and the contentCache property to specify the TSM	
	computer. If true, include the contentCacheEnable property	
True	Specifies that load simulation testing is enabled for the testing	loadSimulationEnable
	the TSM server.	
	responses. Replace localhost with the name or IP address of	
https://localhost:8443/	The URL and secure port of the TSM server that caches test	lcsURL
	https://	
	your configuration, this URL can start with either http:// or	
Blank	The URL and port of the proxy host server. Depending on	httpsProxy
None	The district name for load simulation testing.	districtName*
None	The district ID for load simulation testing.	districtId*
	will perform content caching.	
	include the contentCache property to specify the TSM that	
False	Enables and disables a TSM for content caching. If true,	contentCacheEnable
	with the name or IP address of the TSM server.	
	content and performs load simulation tests. Replace localhost	
https://localhost:8443/	The URL and secure port of the TSM server that caches test	contentCache
True	Enables and disables the automatic update feature.	autoUpdateFlag
Default Value	Description	Property/Switch

^{*}To determine the ID or name, use the name and/or numeric code from the locations file located at https://pa-insight.drcedirect.com/InsightClientRESTServices/ClientRESTService.svc/locations (see Using the Locations File on the following page.).

INSIGHT Installation Program Options (cont.)

Using the Locations File

To locate district and school names and IDs, do the following

- Paste the locations file link into a browser and open it (download the file into a text editor if necessary).
- 5 Search for the string **district_name** to locate the district name and ID (to the left)
- $\dot{\omega}$ Search for the string **school_name** to locate the school name and ID (see below).

name": "Sample School"} {"districtid": 88888", district_name": Sample District, schools ("schoolid": 8888", school_

Example Configuration (.plist) File

The following is an example of the configuration (.plist) file.

(!) Important: Do not cut and paste this information—it is meant as an example only.

<pli><pli>st>

<dict>

<key>adminName</key><string></string>

<key>autoUpdateFlag</key><string>true</string>

<key>contentCache</key><string>https://10.3.97.11:8443/</string>

<key>contentCacheEnable</key><string>true</string>

<key>districtld</key><string>88888</string>

<key>districtName</key><string>Sample District</string>

<key>httpsProxy</key><string>http://10.3.98.61:8081</string>

<key>lcsURL</key><string>https://10.3.97.11:8443</string>

<key>loadSimulationEnable</key><string>true</string>

<key>schoolld</key><string>8888</string>

<key>schoolName</key><string>Sample School</string>

</dict>

</plist>

Configuring an iPad Manually

iPad device. You can do the following: If your MDM software does not support the Managed App Configuration INSIGHT properties to specify certain DRC INSIGHT properties for your INSIGHT manually. You configure an iPad manually by using the DRC feature, you can use it to deploy INSIGHT, but you must configure

- Enable automatic software updates.
- host servers. Specify settings for both your unsecured (http) and secured (https)
- TSM server, and the port it uses for communication. Specify which server is the content caching and/or load simulation
- it uses for communication. Specify which server is the response caching TSM server and the port
- (required). Select the district and school name associated with the testing device

put the iPad into Kiosk Mode (required for testing). and Auto-capitalization, and enable/activate the Guided Access feature to have finished, disable Check Spelling, Predictive Text, Auto-Correction, (see "Setting DRC INSIGHT Properties on an iPad" on page 102). After you You specify these properties by selecting DRC INSIGHT Properties

select Set Passcode to set the numeric passcode Accessibility-Learning-Guided Access. Turn Guided Access on and To turn on the Guided Access feature, specify **Settings–General**–

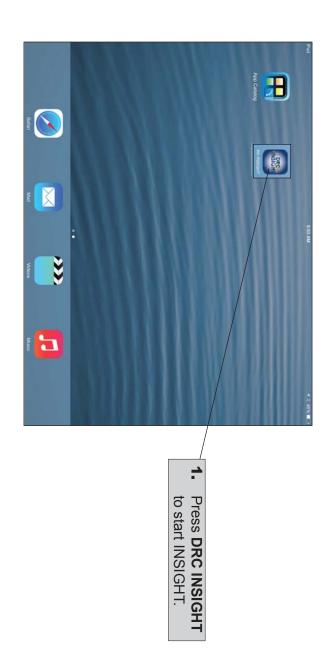
"Working with Guided Access" on page 96). passcode must be secure—do not allow students to have the passcode (see necessary to exit the INSIGHT App during and after testing. a passcode (numeric password). This same passcode information is Note: To put the iPad device into Kiosk Mode, TCs must provide

keyboard and launch the DRC INSIGHT App. If an external Bluetooth keyboard is required, pair the iPad with a

iPad Configuration

Setting DRC INSIGHT Properties on an iPad

INSIGHT and a TSM. System Information page. A dialog box displays that you can use to configure the iPad to work with DRC When you start the System Readiness Check on an iPad, you can select INSIGHT Properties from the



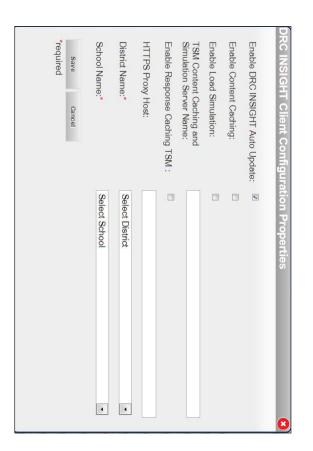
2. In an empty part of the screen, press with two fingers and hold to display the System Readiness Check.



Setting DRC INSIGHT Properties on an iPad (cont.)



3. Click DRC INSIGHT Properties to display the DRC INSIGHT Client Configuration Properties dialog box. From this dialog box you can review your INSIGHT configuration and make changes to it.

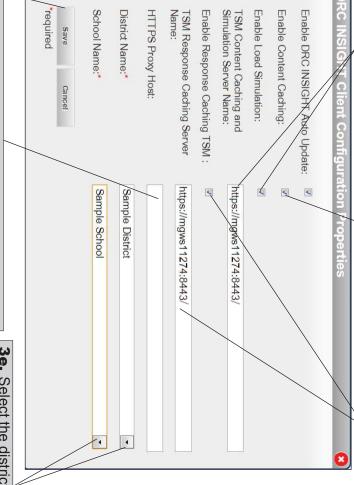


Setting DRC INSIGHT Properties on an iPad (cont.)

3a. To specify a server to use for test content caching, check Enable Content Caching and enter the server name (or IP address*) and port number in the TSM Content Caching and Simulation Server Name field.

3b. To specify a server to use for load simulations, check **Enable Load Simulation** and enter the server name (or IP address*) and port number (separated by a colon), followed by a forward slash (/), in the TSM Content Caching and Simulation Server Name field.

3c. To specify a server to use for test response caching, check **Enable Response Caching TSM** and enter the server name (or IP address*) and port number (separated by a colon), followed by a forward slash (/), in the TSM Response Caching Server Name field.



- 3d. To specify a proxy HTTPS (secured)
 Host to use for the TSM, enter the server
 name (or IP address*) and port number
 (separated by a colon), followed by a
 forward slash (/), in the HTTPS Proxy Host
 field. You may need to restart the DRC
 INSIGHT App to see this change.
 - **3e.** Select the district and school for the testing device from the **District Name** and **School Name** drop-down menus. These names are used for the reports generated from the load simulations tests.

- 4. Press Save to save your changes or Cancel to cancel them.
- server—without it, your TSM may not be configured correctly. that connect to that TSM. Remember to include the forward slash (/) at the end of the path to the TSM connect to the TSM. If the IP address of a TSM machine changes, you must reconfigure the testing devices computer is restarted or rebooted) if you are using the machine IP address instead of the machine name to ① Important: *A TSM server should have a static IP address (an IP address that does not change when the

Setting DRC INSIGHT Properties (cont.)



- System Information window displays the results of the System Readiness Check tests for those changes. Click **Execute Tests** to verify that the iPad is ready for testing. If there are errors, you must resolve them and repeat Steps 4 and 5.
- 9 and turn on the Guided Access feature to put the iPad into Kiosk Mode (required for testing) . Click Exit. Disable Check Spelling, Predictive Text, Auto-Correction, and Auto-Capitalization,
- Note: Apple requires a passcode (numeric password) to activate Guided Access. This passcode must be secure—do not allow students to have the passcode

DRC INSIGHT App. If an external Bluetooth keyboard is required, pair the iPad with a keyboard and relaunch the

Notes

Installing and Configuring **Chromebook Devices INSIGHT** on

What's Covered in This Chapter

Toolkit. information about installing INSIGHT and configuring it using the Device process for non-touch-screen Chromebook devices. It provides detailed This chapter describes the INSIGHT installation and configuration

domain account (see https://support.google.com/a/answer/182433). your Chromebooks. You must register your Chromebooks in your Google You use this software after you have installed, configured, and registered configure and install the TSM with the Chromebooks in your environment DRC provides software called the Device Toolkit that you can use to

order of the steps in the process. two variations is based on the timing of the deployment, which affects the Chromebook device to its ORG Unit. The main difference between the organization units (ORG Units) using the Device Toolkit, and register each For either variation you must install and deploy INSIGHT, set up configuring, and deploying INSIGHT on your Chromebook devices The following are overviews of two variations to the process of installing,

■ Two Ways to Set Up INSIGHT on Chromebooks

Variation A

INSIGHT as part of its regular cycle. In Variation A, you wait until Chrome device management deploys

- -Use Chrome device management to install and deploy INSIGHT to application the next time the policy is reloaded, which occurs every your Chromebook devices. The INSIGHT App is installed as a Kiosk three hours.
- . While you are waiting for INSIGHT to be deployed, use the DRC Device Toolkit to create ORG Units.
- ç register the device to an ORG Unit using the drop-down menu After INSIGHT is deployed, start it on each Chromebook device and

Variation B

immediately. In Variation B, you use Chrome device management to deploy INSIGHT

- 1. Use the DRC Device Toolkit to create ORG Units.
- 2 Use Chrome device management to install and deploy INSIGHT to the Chromebook devices immediately. To deploy the INSIGHT Chromebook and click Reload policies App immediately, enter **chrome://policy** in the address bar of the
- ç and register the device to an ORG Unit using the drop-down menu. On each Chromebook, start INSIGHT on each Chromebook device

Chromebook Installation

Chromebook Installation and Configuration Checklist

response caching, load simulation testing, and other functions. The configuring a Chromebook. following is a brief overview of the process of installing INSIGHT and To test using INSIGHT, you can connect to a TSM for content caching,

- To use a TSM, install one or more TSMs on desktop or laptop address to connect to the TSM) and will be available around the clock. computers that have static IP addresses (if you use the machine's IP
- 2 Sign on to DRC eDIRECT using a supported browser (see below) and use the Device Toolkit link to start the DRC INSIGHT Device Toolkit.
- Chromebook to communicate with the Device Toolkit. (!) Important: You must whitelist the following URL to enable the

dtk.drcedirect.com 50.58.190.22

- ω Use the DRC INSIGHT Device Toolkit to organize and configure your Chromebook devices by performing the following tasks:
- group the Chromebook devices into ORG Units. Create ORG Units based on your testing setup and needs, and
- all of the devices in the ORG Unit. Configure each ORG Unit, specifying the connection to a TSM for
- and Chromebook activity and make any configuration changes. Check the contents of the log files during testing to monitor testing
- 4 Chromebook devices from the Google administration website Use the URL DRC provides to install the DRC INSIGHT App on your
- S necessary, use the Device Toolkit to reset the parameters for the ORG Chromebook can connect to the TSM and is ready for testing. If Device ID. Run the System Readiness Check to verify that the Launch INSIGHT on the Chromebook and record the Chromebook's Unit and redeploy the updated DRC INSIGHT software
- Test the configurations and monitor the log files for issues

The Device Toolkit is supported for the following web browser versions.

the Device Toolkit

Web Browsers and

Apple Safari Mozilla Firefox Internet Explorer Chrome Version 10 or newer* Version 31 or newer Version 6.1.5 or newer The most recent Google Chrome stable channel release

of Internet Explorer, you will receive a Flash error. *If you attempt to access the Device Toolkit using an unsupported version

Chromebook Installation

Installing a TSM

considerations regarding TSM software installation. Because of the role that the TSM plays in testing, there are some special

- of the machine name to connect to the TSM. If the IP address of a restarted or rebooted) if you are using the machine IP address instead static IP address (an address that does not change when the computer is TSM machine changes, you must reconfigure the testing devices that The computer on which you install the TSM software should have a connect to that TSM
- the INSIGHT installation. can specify the path to the TSM and the communication port during You should install the TSM before you install INSIGHT so that you
- the testing computers that connect to it. you must uninstall the TSM and install a new version. If you reinstall a If you need to change the configuration of a TSM after it is installed, TSM after you have installed INSIGHT, you may need to reconfigure

☐ Chromebooks and the TSM

A TSM is used primarily to cache and manage test content and responses. when you install INSIGHT on the Chromebook. PC, Mac (OS X) computer, or Linux machine, and connect to the TSM for a TSM. As a result, you should install the TSM software on a Windows For various reasons, Chromebooks do not provide a suitable environment

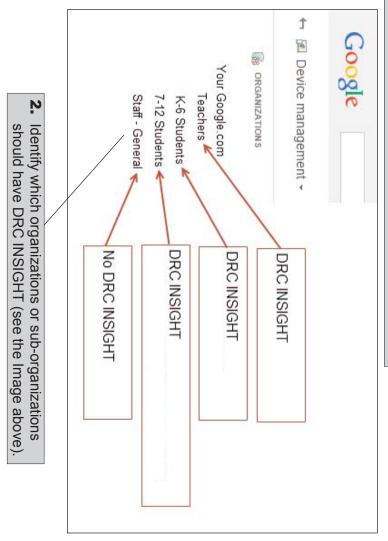
installation chapter. For specific TSM installation instructions, refer to the appropriate

Example of Chromebook Setup and Configuration for INSIGHT

complement DRC INSIGHT and Single App Kiosk Mode. DRC assumes that users have registered their school's domain. get Chrome device management software for each Chrome device and enroll each Chrome device in the Chromebooks as part of their initial implementation. For secure testing, Google specifies that the user must The following is a high-level example of how to set up your Chromebook environment in Google to

"Chromebook Questions" on page 193 the scope of this documentation. For more information, see https://support.google.com/chrome/a and environment using the Chrome device management software. The details of this process are outside [1] Important: The instructions in this chapter assume that you have already set up your Chrome

Log in to your Google Admin account at admin.google.com.



မှ Enroll Chromebook devices and identify them by the device's serial number. You can add notes to help identify the device (see the Example and Notes below).

School, Grade 4, Asset number 12345 Device Serial Number YH4B922AB01005R Notes: Chromebook assigned to Sample

4 Move the Chromebook devices to the appropriate sub-organizations

not the same as the Chromebook Device ID that the Device Toolkit creates (see "DRC same as the DRC Device Toolkit ORG Units, and the Chromebook's serial number is Note: The Google device administration organizations (organization units) are not the INSIGHT Device Toolkit" on page 117).

Quick Tour 7: Installing INSIGHT for Chrome

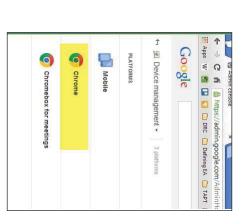
Google administration site. This Quick Tour describes how to install the DRC INSIGHT App on one or more Chromebooks using the

Note: You must have a Google Chrome Administrator profile to install the DRC INSIGHT App

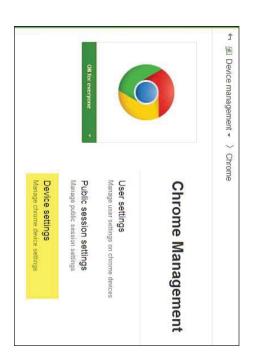
1. Using a supported web browser (see "Web Browsers and the Device Toolkit" on page 109), go to the Google administration site at http://admin.google.com, log in with an administrator profile, and select Device management.



2. Select Chrome.



3. Select Device settings.



Quick Tour 7: Installing INSIGHT for Chrome (cont.)

4. The Device Settings page displays. For Steps 4 and 5, refer to the circled numbers in the diagrams.

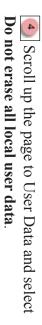
Select the proper organization level to be able to deploy the DRC INSIGHT App to everyone that will use it for testing.

Note: Where the example shows datarecognitioncorp.com, your domain will be listed.

[2] For Single App Kiosk, change the drop-down menu setting to **Allow Single App Kiosk**.

Note: As of March 2015, Google made the Allow Single App Kiosk selection static (there is no drop-down menu in newer versions of Chrome). If a drop-down menu displays, change the setting and continue to the next step. Otherwise, continue to the next step.

[3] For Auto-Launch Kiosk App, leave the value as **None** so the user can use the Chromebook for non-DRC INSIGHT testing.



Scroll down the page and click Manage Kiosk Applications.

5. The Kiosk Apps page displays.

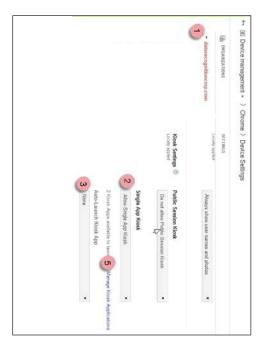
10 Enter the ID and URL for the DRC INSIGHT App (required).

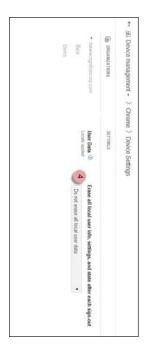
Note: For the ID and URL, see "Installation Files" on page 17. The Chromebook installation file (ChromeAppIDInfo.txt) contains the ID and URL. To download the file, log in to eDIRECT, select **Test Setup–General Info–Downloads**, and download the file for the Chromebook platform.

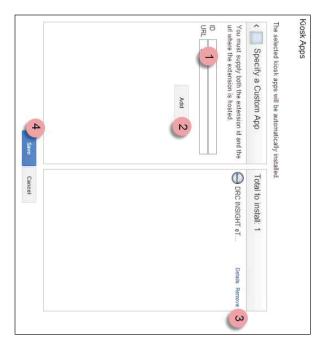


The screen refreshes and the DRC INSIGHT App icon displays in the **Total to install** list.









Quick Tour 7: Installing INSIGHT for Chrome (cont.)

distributed to your Chromebooks during a Google Chrome update process. development or beta versions of software being (the default value). This setting prevents Release Channel is Move to Stable Channel [] Important: Verify that the setting for

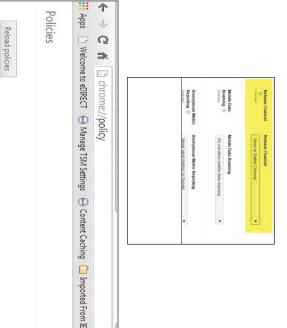
9 a Kiosk application the next time the policy is The Device Settings page redisplays. Click Save reloaded, which occurs every three hours Change. The INSIGHT App will be installed as

Policies

J

policy in the address bar of the Chromebook and INSIGHT App) immediately, enter chrome:// Note: To reload device policy updates (to the click Reload policies.

- .7 select Test Setup-Device Toolkit. drcedirect.com using a supported browser and start the Device Toolkit software and register the configurations to each Chromebook being used Chromebook, sign in to eDIRECT at https://PA. for testing by using the DRC Device Toolkit. To You must deploy the DRC INSIGHT
- ∞ settings identified for the ORG Unit(s) to which organize, and categorize your Chromebooks Device Toolkit" on page 117). the device is assigned (see "DRC INSIGHT the Chromebook, it uses the configuration DRC INSIGHT configuration. When you launch for testing. For each ORG Unit, you identify its organizational units (ORG Units) to group, your browser. Use this software to create The Device Toolkit software displays in
- 9. Select a district from the District drop-down menu. menu and a school from the School drop-down
- 10. Click **Add a new ORG Unit** to get started (see "DRC INSIGHT Device Toolkit" on page 117).





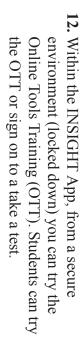




Quick Tour 7: Installing INSIGHT for Chrome (cont.)

- 11. After you have configured your Chromebooks start the Chromebook and do not log in to any are ready to start testing. To start INSIGHT, using the DRC INSIGHT Device Toolkit, you Google accounts (see below).
- will not see the DRC INSIGHT App. The DRC other application until they exit INSIGHT. which means that the user cannot access any INSIGHT App runs in Single App Kiosk Mode Chromebook using a Google account, they [] Important: If a user logs in to the

screen, and click DRC INSIGHT to display the main page. Click **App** from the Chromebook sign-in



Readiness Check on a Chromebook" on page 116 more information, see "Using the System Check (click the Readiness Check link). For Device ID by from the System Readiness Note: You can retrieve the Chromebook's

Devices" on page 122). register the Chromebook (see "Registering Device Toolkit to enter this Device ID and with its INSIGHT configuration. You use the this Device ID to associate the Chromebook Chromebook. The DRC INSIGHT App uses for the first time, it creates a Device ID on the [] Important: When you launch INSIGHT

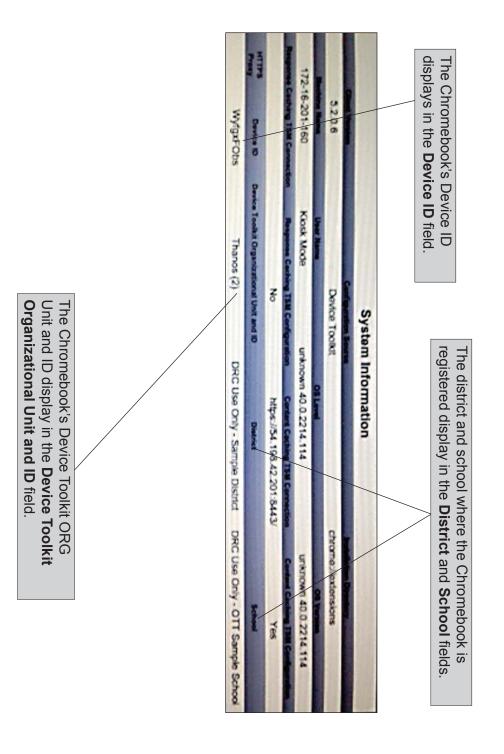




Using the System Readiness Check on a Chromebook

information when you configure the Chromebook using the Device Toolkit. ORG Unit and ID display in the header fields on the System Information page (see below). You use this When you start the System Readiness Check on a Chromebook, the Device ID and Device Toolkit

INSIGHT Device Toolkit" on page 117 and "Registering Devices" on page 122 For more information about using this information to configure the Chromebook, see the topics "DRC



DRC INSIGHT Device Toolkit

Chromebook devices for testing with DRC INSIGHT. (referred to as the Device Toolkit) to organize and manage your This section describes how to use the DRC INSIGHT Device Toolkit

☐ Device ToolkitORG Units

and remove devices from an ORG Unit (the Chromebook is no longer Units), add Chromebook devices to units, move devices between units, visible in the Device Toolkit). You use the Device Toolkit to create and delete organization units (ORG

use more than one TSM, you might want to base your ORG Units on method of grouping your Chromebook devices for testing with DRC manage Chromebook devices. A Device Toolkit ORG Unit is a logical based on the location of a set of Chromebook devices. for TSM A and one for TSM B. Or, you might structure your ORG Units your TSMs. If have two TSMs, you could create two ORG Units—one INSIGHT that makes sense for your environment. For example, if you The Device Toolkit uses the concept of ORG Units to help organize and

you delete a Chromebook and later add it back in to the Device Toolkit, use the Device Toolkit to move a Chromebook device from one ORG Unit ID that is created when INSIGHT is launched for the first time. You can INSIGHT on the Chromebook. a new Device ID is generated which displays the first time you launch to another. You also can delete a Chromebook from the Device Toolkit. If Device Toolkit tracks and manages Chromebooks by using a DRC Device Each Chromebook can belong to only one ORG Unit at a time. The

configured to the same TSM. You can perform the following tasks: once for an entire ORG Unit and every device associated with that unit is unit. At the time you configure the TSM, you specify the configuration You create each ORG Unit and decide which Chromebooks make up that

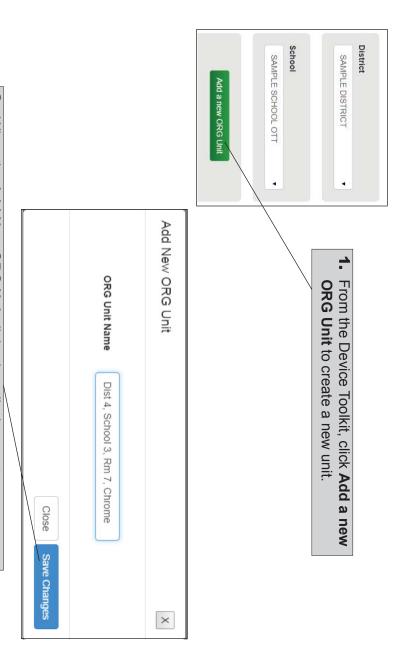
- Specify proxy settings for both your unsecured (http) and secured (https) host servers.
- Specify which server is the content caching and/or load simulation TSM server, and the port used for communication.
- Specify which server is the response caching TSM server and the port used for communication.
- computer (required). Select the district and school name associated with the testing

tailor the settings for various Chrome devices (see https://support.google. Device Toolkit ORG Units are different than Google organizational units. com/a/answer/182433). give users in an organization access to different features or services, and to You use Google organizational units with Chrome device management to

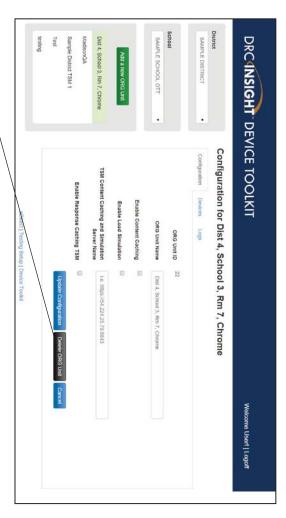
☐ GoogleOrganizationalUnits

Creating and Deleting ORG Units

You can use the Device Toolkit to create or delete ORG Units to organize your Chromebooks for testing.



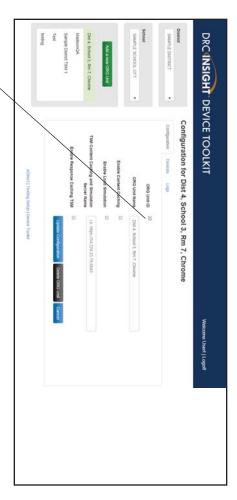
<u>N</u> When the Add New ORG Unit dialog box displays, enter a organize your Chromebooks for testing, and click Save Changes. meaningful name for the ORG Unit that will help you categorize and



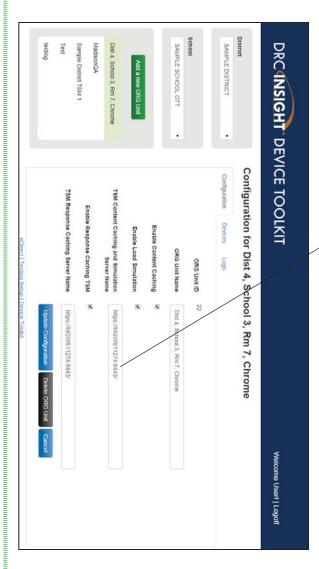
3. The configuration page for the ORG Unit you opened or created displays. To delete an ORG Unit, click **Delete**ORG Unit. A dialog box displays to confirm the deletion.

Configuring the TSM

and to organize them for testing and Online Tools Training (OTT). This section describes how to use the Device Toolkit to configure your Chromebooks to work with the TSM



- From the Device Toolkit, select an ORG Unit. The displays with a unique ORG Unit ID number. configuration page for the ORG Unit you opened or created
- Ņ number (separated by a colon), followed by a forward slash (/), in the simulation testing, check Enable Content Caching and/or Enable **Load Simulation**, and enter the server name (or IP address*) and port To specify a server to use for test content caching and/or load TSM Content Caching and Simulation Server Name field



computer is restarted or rebooted). If the IP address of a TSM machine changes, you must reconfigure the to the TSM servertesting computers that connect to that TSM. Remember to include the forward slash (/) at the end of the path ① Important: *A TSM server should have a static IP address (an IP address that does not change when the -without it your TSM may not be configured correctly.

Configuring the TSM (cont.)

and port number (separated by a colon), followed by a forward slash (/), in the TSM Response Caching Server Name field. Response Caching TSM and enter the server name (or IP address) To specify a server to use for test content caching, check **Enable**



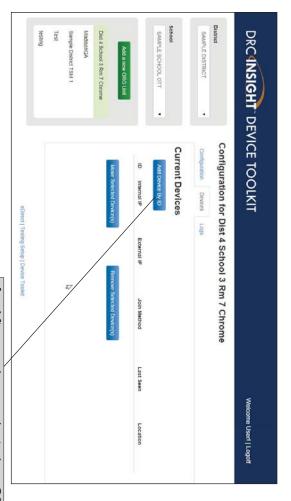
4 Click Update Configuration to save your changes or Cancel configuration was updated successfully. to cancel them. A message displays indicating whether the



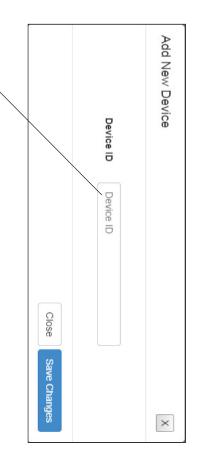
There are links to **eDIRECT**, **Testing Setup**, and the **Device Toolkit** at the bottom of the page.

Adding Devices

for testing. To add the device, you must know the Chromebook Device ID. You can use the Device Toolkit to add Chromebook devices to an ORG Unit to organize your Chromebooks



After you have selected an ORG Unit from the Device Toolkit, select the Devices tab and click **Add Device By ID** to add a device to the unit.



Ņ When the Add New Device dialog box, displays, enter the ID redisplays with the device added. of the device in the Device ID field and click Save Changes. Click **OK** to add the device to the ORG Unit. The Devices tab

Note: The Device ID is the Chromebook Device ID, not the device's serial number.

Registering Devices

with the device a message displays indicating that the device must be registered. If a Chromebook device has not been registered in the DRC Device Toolkit, when a student attempts to test

new Device ID is created. Note: The Chromebook Device ID is generated by DRC. If you uninstall and reinstall DRC INSIGHT, a

1. You can register the device by writing down the Device ID that displays and use it with the Device Toolkit Add By Device ID function (see "Adding Devices" on page 121). Click **OK** to close the message display

This device has not been registered. Please contact an Administrator District, School, and Organizational Unit to register this device to register it using the Device ID indicated below, or select the Your device has not been registered Or select your Organizational Unit Organizational Unit School District Please raise your hand and wait for help Message to Test Administrator: **WKJMCF0HW** Select an Org Unit Select a District Select a School Save

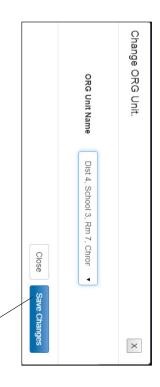
Ņ You also can register the Chromebook device by selecting its district, District, School, or Organizational Unit fields. Save to save your changes. Click Clear to clear any entries in the school, and organizational unit from the drop-down menu and clicking

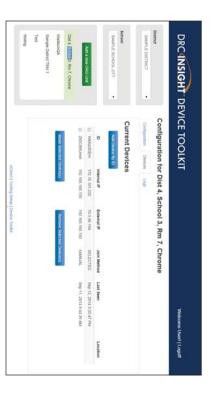
Moving Devices

Chromebooks for testing. You can use the Device Toolkit to move one or more devices between ORG Units to organize your



1. Select an ORG Unit you want to move devices from (the source unit), select the **Devices** tab, check each device you want to move from the source ORG Unit, and click **Move Selected Devices**.



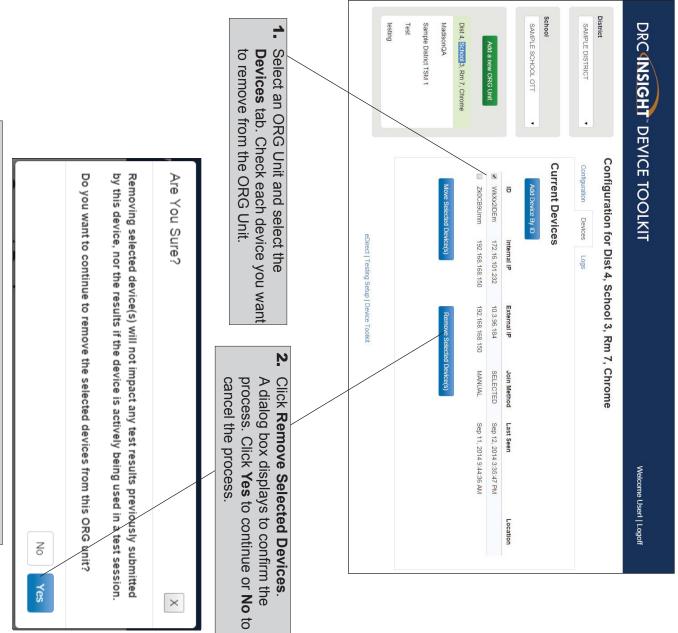


2. When the Change ORG Unit dialog box displays, select the name of the target ORG Unit from the drop-down menu in the ORG Unit Name field and click Save Changes. Each device you selected is moved to the target ORG Unit.

Removing Devices

You can use the Device Toolkit to remove one or more Chromebook devices from an ORG Unit.

Note: When you remove a device, its configuration settings are saved in the database, but the device no longer appears in the Device Toolkit.



If you click Yes, each device you selected is removed from the ORG Unit and no longer displays in the Device Toolkit.

Using Log Files

assigned to an ORG Unit. You can use the Device Toolkit log files to review system information about the Chromebook devices

1. Select an ORG Unit and select the **Logs** tab. System information about Chromebook devices assigned to that ORG Unit displays.



2. You can view the time an incident was logged, the Device ID, and the message.

Notes

Working with INSIGHT

Working with INSIGHT

T Check	What's Covered in This Chapter This Chapter Online Tools Training (OTT) The Monitor Verification Test Wanager (TSM) Dising Caching Load Simulation Testing The System	This chapter discusses some of the tools and components of the DRC INSIGHT Online Learning System. These include Online Tools Training (OTT) the Monitor Verification Test, the Testing Site Manager (TSM), the System Readiness Check, and DRC INSIGHT Properties. This chapter also offers tips and techniques to implement your INSIGHT configuration for maximum efficiency. This section describes the OTT, a series of sample test questions to help introduce students to the testing tools available in the online environment. This section describes the Monitor Verification test, available in eDIRECT, that helps you determine whether the monitor settings for the testing computer are configured for optimal testing. This section describes how to use the TSM software to manage tests and response communication between DRC and students efficiently. It also introduces the diagnostic tools available within the TSM. This section describes how to use the TSM to help manage the process of storing and updating tests (content caching) and student test responses (response caching). This section describes how to display the consistency and rate of data transfer across a network (latency) during a specified date range to determine the best times for testing. This section describes how to perform load simulations and estimate the amount of time it will take to download tests and upload responses during testing based on the testing load. Note: Load simulation testing is not applicable for the CDT Computer Adaptive Tests (CAT) and will not provide an accurate estimate of load times for these tests.
ion io site	ols OTT) or n Test	This section describes the OTT, a series of sample test ques introduce students to the testing tools available in the online. This section describes the Monitor Verification test, available that helps you determine whether the monitor settings for the computer are configured for optimal testing.
neck ion	ing Site (TSM)	This section describes how to use the TSM software to mai response communication between DRC and students efficientroduces the diagnostic tools available within the TSM.
io n	aching	This section describes how to use the TSM to help manage of storing and updating tests (content caching) and student (response caching).
neck ion	ivity	This section describes how to display the consistency and transfer across a network (latency) during a specified date determine the best times for testing.
neck	nulation	This section describes how to perform load simulations ar amount of time it will take to download tests and upload r testing based on the testing load.
leck		Note: Load simulation testing is not applicable for the CI Adaptive Tests (CAT) and will not provide an accurate est times for these tests.
	tem ss Check	This section describes how to verify that a testing computer is ready to test using the INSIGHT software.
	SIGHT es	This section describes how to specify important system p testing computers, as well as how to connect to a TSM to caching, response caching, and load simulation tests.

Online Tools Training (OTT)

prepare them for online assessments. This training allows students to try the features of the testing software before the actual test. The OTT is a set of sample test questions to introduce students to the tools available during testing and

testing application, not to assess skills. The sample OTT questions demonstrate the features of the testing environment and the OTT tests are not scored. The OTT is not designed to cover the test contentthe goal is to instruct the student about using the

testing online should have at least one opportunity to review the OTT for their subject and/or grade Assessment Coordinators should review the OTT before the students begin the test administration. Test Administrators (TAs) and Test Proctors should also review the OTT at least once. All students who will be

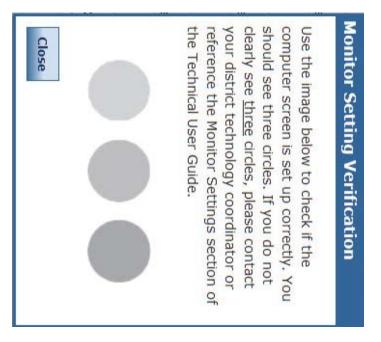
To try the OTT, do the following:

- 1. The first step depends on the type of testing device
- Assessments, (or click the PA Online Assessments desktop shortcut). From a Windows 7 computer, select All Programs-PA Online Assessment System—PA Online
- (or click the PA Online Assessments desktop shortcut). From a Mac (OS X), select Applications-PA Online Assessment System—DRC INSIGHT.app,
- From an iPad device, press DRC INSIGHT to start the INSIGHT App
- From a Chromebook device, click on the INSIGHT App.
- ? When INSIGHT launches, click or select Online Tools Training
- 3. Select a subject by clicking on it.
- 4 Enter the username and password provided on the screen and click Sign In
- Ċ Follow the instructions on the screen to take the practice tests and use the test tools.

as often as necessary. Note: There are no restrictions for accessing the OTT--students are allowed to repeat the practice tests

The Monitor Verification Test

monitor is set up correctly to display the online tests. After you sign in to start a test, a screen similar to the following displays to help determine whether your



the testing computer's monitor until three circles display clearly. of the online questions. To resolve the problem, you must modify the brightness and/or contrast settings for If you do not see three shaded circles on the monitor display, a student will have difficulty answering some

Changing the Monitor's Contrast or Brightness

searching the Internet using a search such as changing the contrast for operating system x or monitor y ideas to try to change the contrast or brightness. For a specific hardware configuration, you also can try system, the computer, the graphics card, and the type of monitor you are using. The following are some There are many ways to change the contrast or brightness of your display depending on the operating

Windows Operating System

- On a laptop, look for a half-white/half-black circle on the keyboard. This function key changes the
- brightness On a desktop computer, look for an option on the monitor, or monitor menu, to change the contrast and
- from the Control Panel: Control Panel-System Properties-graphic cards tab Identify the type of graphics card—NVIDIA, Intel, or ATI—and locate options for your graphics card
- check Advanced Settings). If you can't find a Contrast option, look for Gamma, Saturation, or Hue Locate a menu called Monitor Settings, Color, or Graphic Settings and change the contrast (be sure to
- Right-click on the desktop to bring up menu options for Intel and ATI cards

Note: ATI's menu option is called Catalyst Control Center; Intel's option is called Intel Graphics Media Accelerator Driver.

• Select the folder c:\Program Files\graphics card

where: graphics card is Intel, NVIDIA, or ATI

Mac (OS X)

- the Brightness slider. **Displays** (Mac 10.6) or **System Preferences–Accessibility–Monitor** (Mac 10.8) and use the Change To change the brightness, use the keyboard buttons, or select Apple button-System Preferences-
- To increase the contrast, use the following key combination:

Command key + Option key + Ctrl key + . (period)

To decrease the contrast, use the following key combination:

Command key + Option key + Ctrl key +, (comma)

or System Preferences-Accessibility-Monitor (Mac OS 10.8) and use the Change the Contrast slider. Note: You also can change the contrast by selecting System Preference-Universal Access (Mac 10.6)

Linux

For Linux desktop monitors, check the settings in the Monitor menu options

iPad Devices

For iPad devices, refer to your iPad documentation

Chromebook Devices

For Chromebook devices, refer to the Google Chrome help or documentation.

■ The Testing Site Manager (TSM)

environment, including caching software to store tests and/or student test to help you plan, configure, manage, and troubleshoot your online testing The Testing Site Manager (TSM) is a powerful, easy-to-configure, web-based software application that contains a number of software tools

The following table describes the suite of TSM software tools.

Tool	Description
Content Caching	The TSM stores tests and lets you update them to the most current versions for testing.
Response Caching	In the event the Internet connection to DRC is lost, the TSM stores test responses and attempts to transmit them at fifteen-minute intervals to DRC.
	It also lets you review details about responses currently stored in the TSM (unsent responses) and responses the TSM transmitted to DRC (historical responses).
Load Simulation Test (LST)	The LST helps you estimate variations in network responsiveness based on the number of students testing at the same time, the current network traffic, the amount of available bandwidth, and other site-specific factors.
Ping Trend Graphs	Ping trend graphs help you determine the best time of day to test based on the variances in speed, connectivity, and responsiveness of your network communication.

Using the TSM

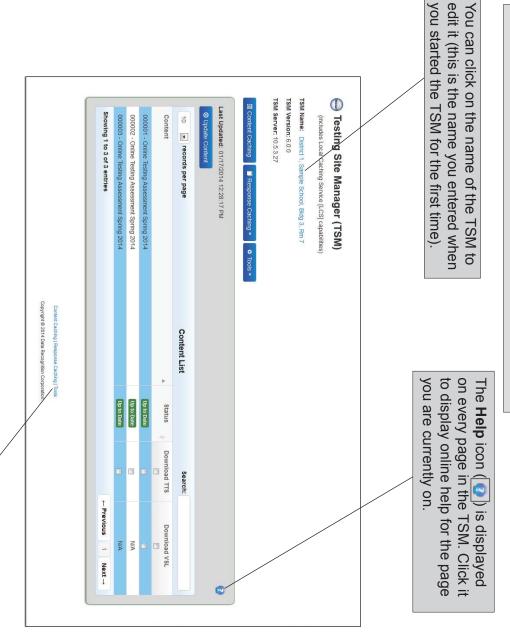
This section describes how to use the TSM and its basic functions.

To start the TSM, select **Start-All Programs- TestingSiteManager-TestingSiteManager**.

The first time you start the TSM, the Enter Testing Site Manager Name dialog box displays. In the TSM Name field, enter a name that will help you remember the location of the TSM machine and click **Save**.

Note: DRC recommends that you include the district, school, and location (building and/or room number) of the TSM. The name you choose is limited to 40 characters and there are no special formatting requirements.





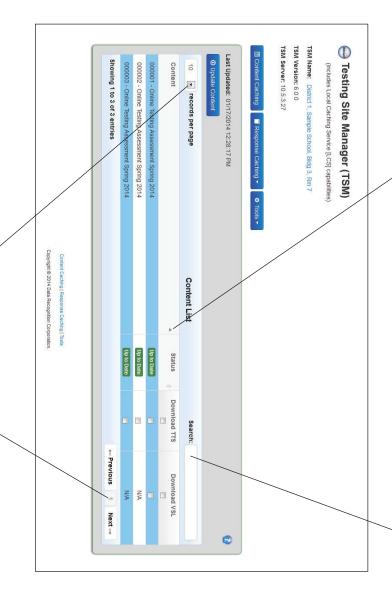
There are active page links to all of the functions currently configured in the TSM.

Using the TSM (cont.)

You can sort the data in a column.

- date, depending on the type of data. the column data in ascending order, either alphabetically or by Click the up arrow icon () next to the column header to sort
- sort the data in descending order, either alphabetically or by date, depending on the type of data. Click the down arrow icon () next to the column header to

Throughout the TSM you can use the Search field to search for specific information, such as tests, student responses, and simulation results, and filter the display.



Use the **records per page** drop-down menu to specify the number of records to display at once. You can select **10** (the default value), **25**, **50**, **100**, or **All** (for all records).

Use the **Previous** and **Next** buttons to move backward and forward between pages in the display.

The number between the buttons indicates the number of the page you are currently viewing.

Using Caching

using the Response Caching option. Both of these caching options are configurabletest items using the Content Caching option and student responses The TSM can cache (store) test items and student responses. It manages -a user can select either, both, or neither.

Note: Response caching is not available for computer adaptive testing.

- that you can keep updated, manually or automatically, to guarantee that students are using the correct version of the test Before testing occurs, content caching stores copies of the test items
- "Content Caching" on page 136). begins, verify that your TSM has the most current test items (see [] Important: With content caching, each morning before testing
- to be transmitted to DRC. caching stores their test responses in the TSM as a secure backup copy As students test, if a student's connection to DRC fails, response

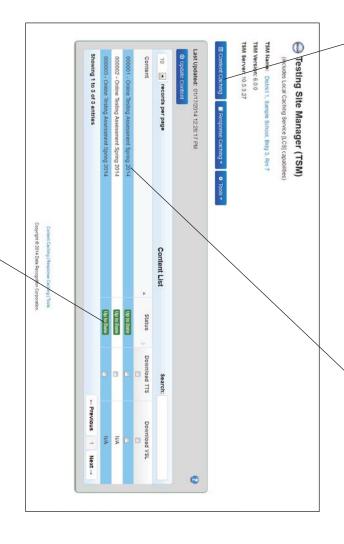
stored responses and transmit them manually. fifteen minutes. You also can use the TSM to review the status of happens, the TSM attempts to transmit its stored responses every Testing continues even if the connection to DRC is disrupted. If this

Content Caching

date. Before testing, you must replace any test content that is out of date with the most current versions from content that is up to date. Because there may have been updates to the test content between the time the The correct test content must be available when students start testing-DRC. Students cannot test if test item content is out of date. TSM was installed and testing begins, it is important to verify that the test items stored in the TSM are up to -students can only test using test

The **Content Caching** button displays the tests available on the TSM. These tests are available to download to INSIGHT.

Each testing administration in the cache is identified by a unique ID number followed by the name of the specific assessment. In the examples in this user guide, a generic identifier is displayed—the identifier you see will be specific to your state and assessments.



are the most current version (up to date). The **Status** column in the Content List table indicates whether all test forms in an administration

- column displays Up to Date in green text. If all of the most current versions of tests in an administration are on the TSM, the Status
- If the most current versions are not on the TSM, the Status column displays Out of Date

Note: An administration must have a status of Up to Date before it is administered Otherwise, students receive an error message when they log in and will be unable to test.

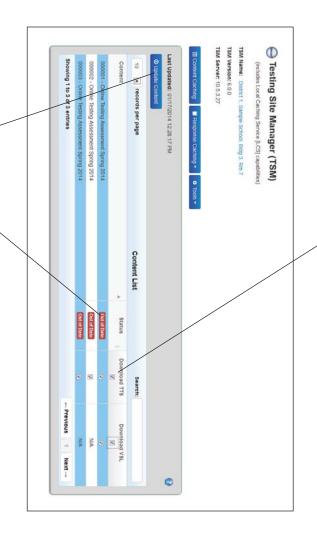
Content Caching (cont.)

forms for those tests are not loaded automatically when the TSM is downloaded. If you have specified accommodations such as Text-To-Speech (TTS) or Video Sign Language (VSL), the

Select the appropriate checkboxes to download the customized test forms.

Download TTS Download VSL

Note: A value of **N/A** in a column indicates that there is no accommodation for the corresponding assessment.



have the forms for the accommodation. The Status indicator changes to Out of Date to indicate that you do not

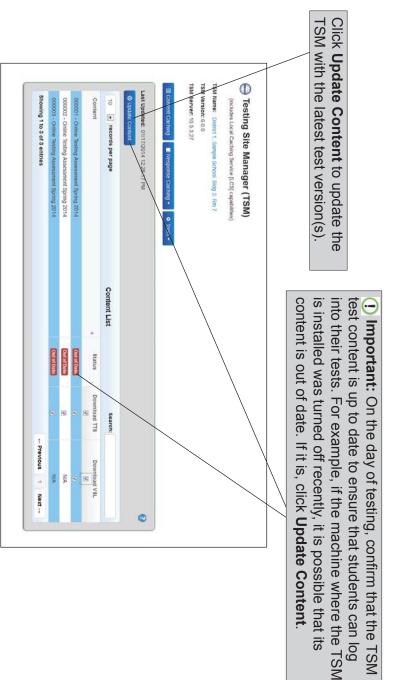
version(s). Click Update Content to update the TSM with the latest customized test

When the process is complete, the Status indicator changes to **Up to** Note: This process can take some time based on the size of these forms Date to indicate that you have the latest forms for the accommodation.

Content Caching (cont.)

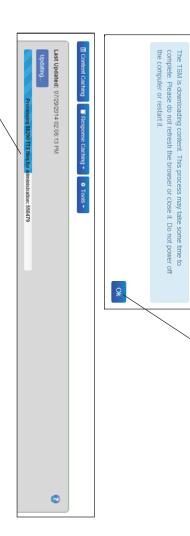
Content, the latest version of each test is downloaded and the status changes to Up to Date To update tests manually, click the **Update Content** button at the top of the page. When you click **Update**

is installed is powered on, the TSM automatically updates the test content. Note: The TSM also automatically checks for updates at regular intervals. If the computer where the TSM



regarding the update process. After you read the information, click OK. When an update starts, the Content Update page displays information

Content Update

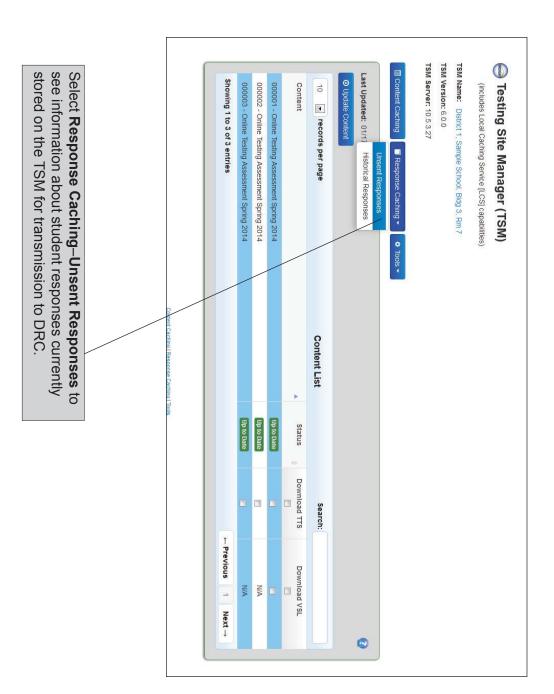


During the update, a progress bar displays to indicate the status of the update.

Response Caching—Viewing Unsent Student Test Responses

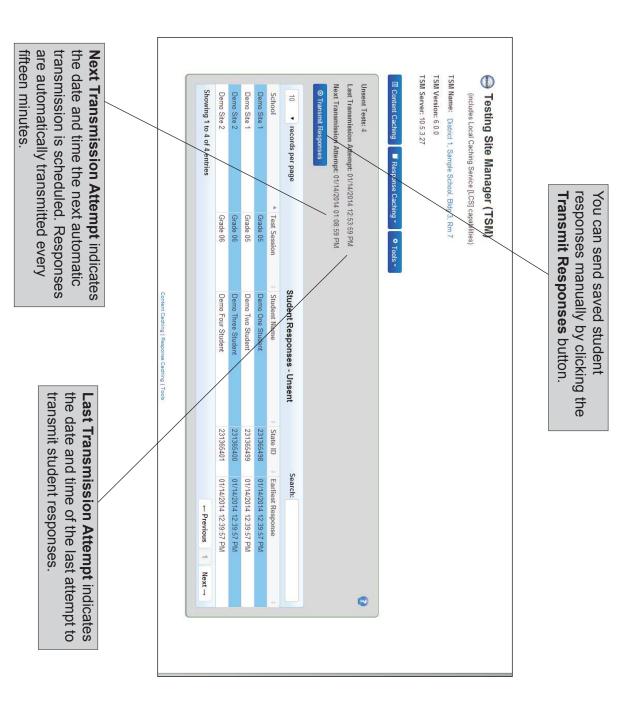
those responses, Select Response Caching-Unsent Responses To check whether student test responses have been transmitted to DRC and for detailed information about

Note: If the Internet connection with DRC is lost while testing, student responses are saved to the TSM. fifteen minutes. When the TSM is communicating with DRC, these stored responses are transmitted automatically every



Response Caching—Viewing Unsent Student Test Responses (cont.)

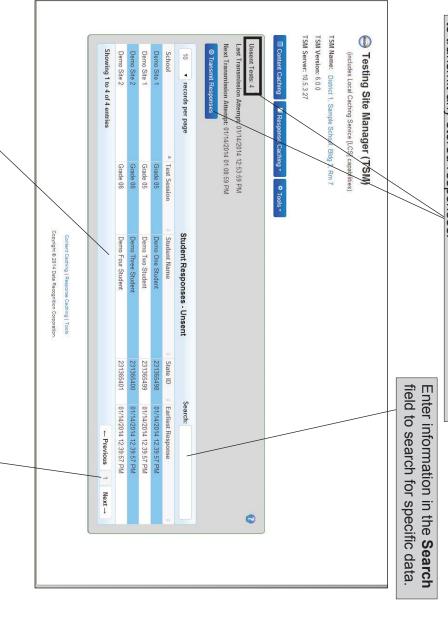
responses currently stored in the TSM that are waiting to be transmitted to DRC. When you select Unsent Responses, the Student Responses—Unsent tab displays information about student



Response Caching—Viewing Unsent Student Test Responses (cont.)

Unsent Tests indicates the number of tests that have not been sent to DRC.

(1) Important: Verify that this number is 0 (zero) at the end of each testing day and at the end of the entire testing period. If it is not zero, click the **Transmit Responses** button to transmit any stored responses.

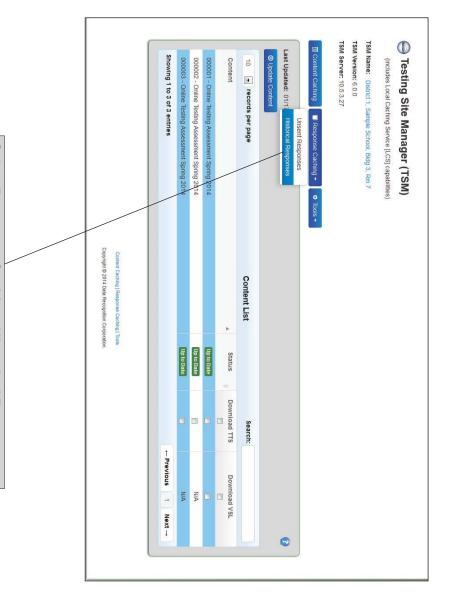


By default, the Student Responses – Unsent page displays all of the information currently available.

Use the **Previous** and **Next** buttons to move backward and forward between pages in the display. The number between the buttons indicates the page you are currently viewing.

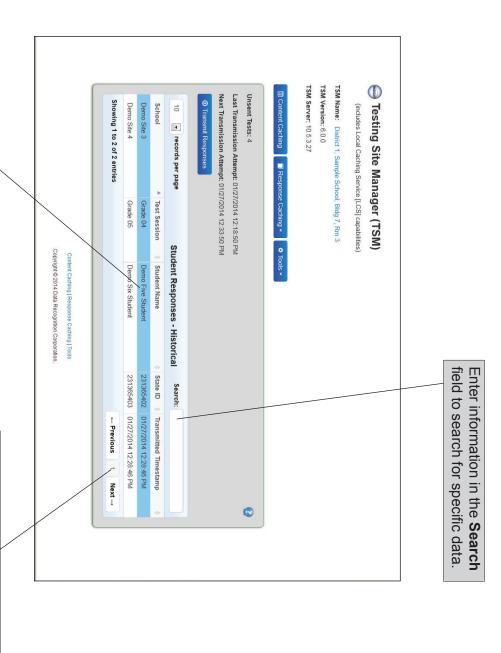
Response Caching—Viewing Historical Test Responses

have been transmitted to DRC. Select Historical Responses from the drop-down menu to display information about student responses that



Select **Response Caching–Historical Responses** to display information about the student test responses that the TSM has sent to DRC.

Response Caching—Viewing Historical Test Responses (cont.)



By default, the **Student Responses – Historical** tab displays all of the information currently available.

Use the **Previous** and **Next** buttons to move backward and forward between pages in the display. The number between the buttons indicates the page you are currently viewing.

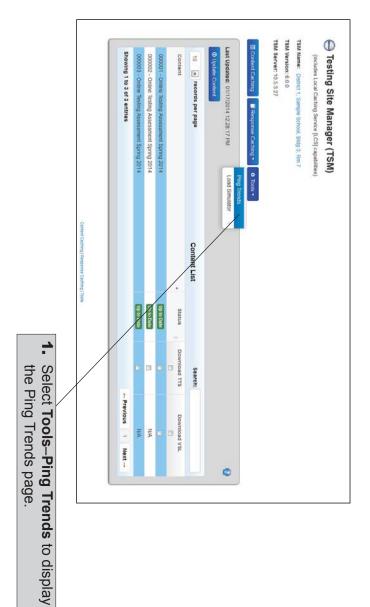
Ping Activity

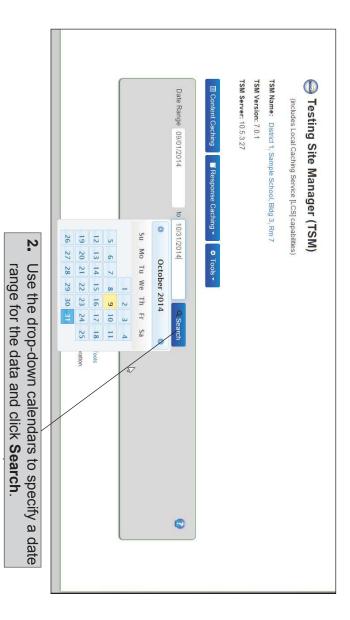
receive the data packets (usually because of excess network traffic). received. The longer this time is, the longer it has taken the DRC server to network also calculates the time, in milliseconds, it takes for the data to be sends data packets from the TSM to the DRC server and back. The When the TSM "pings" the IP address of the DRC server, the network

traffic times and for analyzing the best times for testing. Knowing the latency is useful for helping to determine peak network This rate of data transfer across a network is referred to as latency.

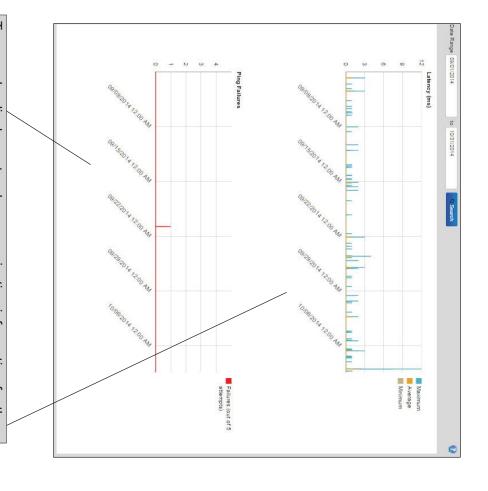
Graphing Ping Activity

date range that you specify, as well as the number of ping failures during the same date range. Select Tools-Ping Trends to graph the time that was required by the TSM to ping the DRC servers for a





Graphing Ping Activity (cont.)



Two graphs display network communication information for the date range.

- The first graph reveals the latency of the network.
- The second graph indicates the number of ping failures.

Graphing Ping Activity (cont.)

delay in a system—the greater the latency, the slower the communication. The first graph displays a measure of the latency during the date range. Latency is a measure of the time



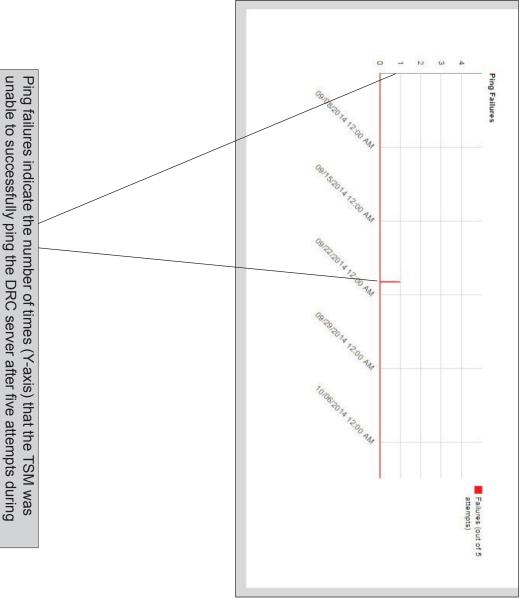
the time period, organized by color: In this graph, latency represents the time required (in milliseconds) for ping attempts during

- The blue line indicates the maximum amount of time needed for ping attempts.
- The orange line indicates the average amount of time needed for ping attempts
- The tan line indicates the minimum amount of time needed for ping attempts

determine optimum testing times. As the time required for ping attempts increases, peaks or spikes appear that can indicate increased network traffic and slower response time. You can use this information to

Graphing Ping Activity (cont.)

information to determine optimum testing times. between the TSM and DRC. Similarly, a low failure rate indicates a good time for testing. You can use this indicator of system availability—a spike, or high failure rate, indicates a time period of poor communication The second graph displays the number of ping failures during the date range. Ping failures are a good



each time interval* (X-axis). unable to successfully ping the DRC server after five attempts during

into equal date and time intervals. *To graph ping failures, the TSM divides the date range you specified

■ Load Simulation Testing

simulation tests: responses. The following are prerequisites and tips for performing load the amount of time it will take during testing to download tests and upload Technology Coordinators (TCs) can perform load simulations to estimate

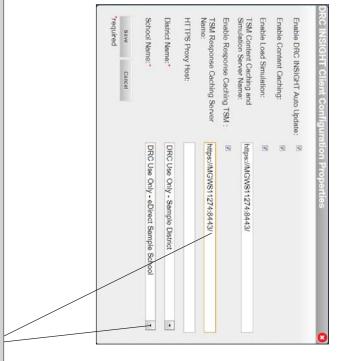
device that you plan to include in the simulation. The TSM must be installed, running, and connected to each testing

- unresponsive. You may have to uninstall and reinstall the TSM. test with more than 100 devices may cause the TSM to become devices per TSM to 100. Attempting to perform a load simulation [] Important: For a load simulation test, limit the number of testing
- source for form content and once specifying DRC as the source for your load simulation testing. Run it twice specifying the TSM as the DRC recommends that you run the each simulation three times during form content
- ensure that all devices are included in multiple simulations. Run different load simulations with different groups of devices to
- include in the simulation. INSIGHT must be installed on each testing computer that you plan to
- testing computer that you plan to include in the simulation. The System Readiness Check must be displayed on the screen of each
- your load simulation reports. You must select a district and school name for the testing computer for

Testing, see "Load Simulation Testing Questions" on page 190. Note: For general questions and answers regarding Load Simulation

Performing a Load Simulation

which of the registered computers to include in the simulation, and run your simulations. Then, use the TSM the testing computer is using to register the testing computer with the TSM. Next, start the TSM, specify perform load simulations. First, install INSIGHT on a testing computer and specify the location of the TSM to review the results of the simulations. You use the TSM and INSIGHT to perform a load simulation—if you are not using the TSM, you cannot

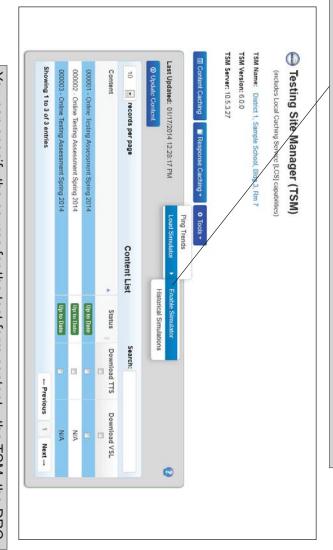


To perform a load simulation, do the following:

- -Install INSIGHT on each testing computer (see the Installation chapters) that you will be using in the load simulation.
- Ņ Start the System Readiness Check and click DRC INSIGHT Properties to display the DRC INSIGHT Client Configuration Properties window.
- မှ checkboxes and specify the location of the TSM you use for content caching in the TSM Content If you have not done so, check the Enable Content Caching and Enable Load Simulation "Setting DRC INSIGHT Properties" on page 169). computer from the District Name and School Name drop-down menus, and click Save (see Caching and Simulation Server Name field, select the district and school for the testing
- Readiness Check must be active on each testing computer that you plan to include in the (!) Important: When you are finished, leave the System Readiness Check open. The System
- 4 Start the TSM by selecting Start-All Programs-TestingSiteManager-TestingSiteManager.

Performing a Load Simulation (cont.)

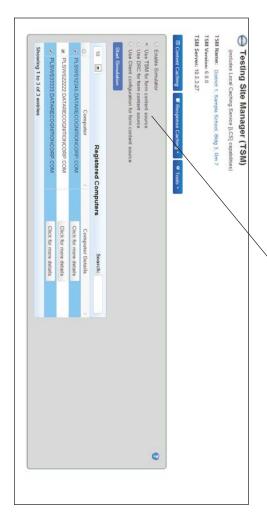
5. From the TSM, select Tools-Load Simulator-Enable Simulator.



servers, or the testing computer. You can specify the source for the test form content—the TSM, the DRC

9 specify the source of the form content for the simulation. Check the Enable Simulator checkbox and use the radio buttons to

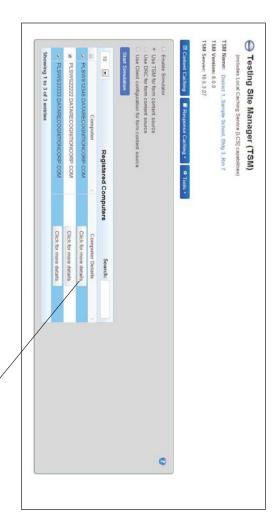
Note: This step registers the testing computer with the TSM.



The Registered Computers page displays the number and name of each testing computer registered to the TSM.

7 simulation by clicking the checkbox next to each computer's name. Click Select one or more computers from the Computer column to include in the the checkbox at the top of the column to test all of the computers.

Performing a Load Simulation (cont.)

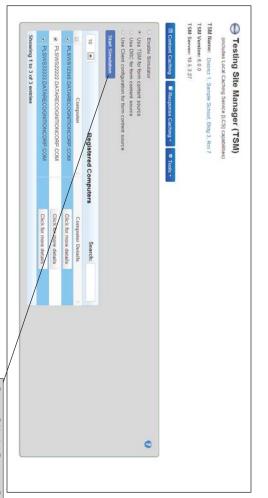


You are ready to run a simulation.

ထ the testing computer. Click Close when you are finished. To locate one or more computers in the list, use the Search box. Click the Click for more details button to display technical details about



Performing a Load Simulation (cont.)



9. Click Start Simulation to start the simulation. You can click Cancel Simulation to cancel a simulation.





computer in the simulation displays a completion message. After a simulation, the Start Simulation button changes to New Simulation and each testing

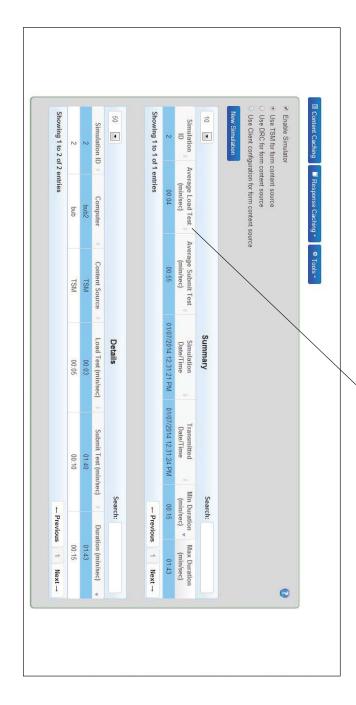
10. To run another simulation, click the New Simulation button to reset it to Start Simulation and repeat steps 4–9. If you are finished, close the System Readiness Check on each testing computer.

than one second is rounded to one second. Note: A simulation times out after ten minutes. The time for a simulation that lasts less

Analyzing Load Simulation Results

to the tables on the following page. When the load simulation finishes, the results display. For a description of the information displayed, refer

The simulation results are sorted by Maximum Duration and Simulation ID. You can click on any column heading to re-sort the data.



Analyzing Load Simulation Results (cont.)

The following tables describe the information displayed from the completed simulation.

Summary

in the simulation. The information in the Summary column summarizes simulation results across all of the testing computers

Heading	Description
Simulation ID	A system identifier for the simulation.
Average Load Test (min/sec)	The average time for the computers in the simulation to load test content.
Average Submit Test (min/sec)	Average Submit Test (min/sec) The average amount of time for the computers in the simulation to submit all
	test responses to DRC. This time factors in the time required to submit each test
	response, the wait time between each test question, and the time required for the
	final test submission.
Simulation Date/Time	The date and time the simulation started.
Transmitted Date/Time	The time the simulation results were transmitted to DRC.
Min Duration (min/sec)	The time required for the fastest computer in the simulation to load the test and
	submit the results.
Max Duration (min/sec)	The time required for the slowest computer in the simulation to load the test and
	submit the results.

Details

The information in the Details column shows simulation details for each testing computer in the simulation.

Heading	Description
Simulation ID	A system identifier for the simulation.
Computer	The unique name of each computer in the simulation.
Content Source	The source of the test content loaded to the testing computer, DRC or TSM.
Load Test (min/sec)	The time it took the testing computer to load test content.
Submit Test (min/sec)	The time it took the testing computer to submit test responses to DRC.
Duration (min/sec)	The total time it took the testing computer to load the test and submit the results.

Viewing Historical Simulation Data

description of the meaning of the information displayed, refer to the tables that follow. Use the Historical Simulations option to view the results of one or more simulations that you select. For a

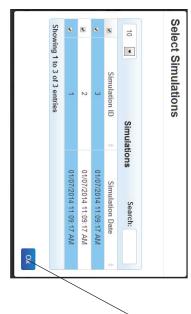


To select one or more simulations, do the following:

- 1. Select Tools-Load Simulator-Historical Simulations.
- 2. Click Select Simulations.

simulation you want to display. The Select Simulations dialog displays. Check a checkbox for each

3. Click **OK** to view the results.



Viewing Historical Simulation Data (cont.)



The results display for the simulations you selected.

4 For a description of the meaning of the information displayed, refer to the tables on the following page.

on the column headings to re-sort the data. Note: The results are sorted by Maximum Duration and Simulation ID. You can click

Working with INSIGHT

Viewing Historical Simulation Data (cont.)

The following tables describe the simulation information that displays.

Summary (Historical)

simulation selected. The historical summary information summarizes simulation results across all of the testing computers in the

Heading	Description
Simulation ID	A system identifier for the simulation.
Average Load Test (min/sec)	The average time for the testing computers in the simulation to load test content.
Average Submit Test (min/sec)	Average Submit Test (min/sec) The average amount of time for the computers in the simulation to submit all
	test responses to DRC. This time factors in the time required to submit each test
	response, the wait time between each test question, and the time required for the
	final test submission.
Simulation Date/Time	The date and time the simulation started.
Transmitted Date/Time	The time the simulation results were transmitted to DRC.
Min Duration (min/sec)	The time required for the fastest computer in the simulation to load the test and
	submit the results.
Max Duration (min/sec)	The time required for the slowest computer in the simulation to load the test and
	submit the results.

Details (Historical)

selected. The historical detail information shows simulation details for each testing computer in the simulation

Heading	Description
Simulation ID	A system identifier for the simulation.
Computer	The unique name of each computer in the simulation.
Content Source	The source of the test content loaded to the testing computer, DRC or TSM.
Load Test (min/sec)	The time it took the testing computer to load test content.
Submit Test (min/sec)	The time it took the testing computer to submit test responses to DRC.
Duration (min/sec)	The total time it took the testing computer to load the test and submit the results.

☐ Windows Systems Chromebook Mac (OS X) **iPad Devices** Linux Systems Systems Devices Check Readiness select Open, and select Run in Terminal. use to diagnose and prevent or correct most errors easily. System Readiness Check. Assessments-Readiness. state or assessment. success.

installed when you install INSIGHT and performs a series of tests you can occur during INSIGHT installation or when INSIGHT is running. It is The System Readiness Check helps you troubleshoot issues that might

The System

any checks that the testing device failed and provides suggestions for necessary hardware and software requirements for testing. It also indicates The System Readiness Check verifies that a testing device meets all of the

device, depending on the type of device, the operating system, and the The System Readiness Check is located in different places on the testing

the program, from the Start menu select All Programs-PA Online at C:\Program Files (x86)\PA Online Assessments\Readiness. To run For Pennsylvania, the program is located at C:\Program Files\PA Online Assessments\Readiness. For 64-bit computers, the program is located

For Pennsylvania, the program is located at /Applications/PA Online /Applications/PA Online Assessments and double-click on Readiness Assessments/Readiness. To run the program, select

For Pennsylvania the program is located at /opt/PA Online Assessment System/Readiness. To run the program, right-click on the Readiness file,

the INSIGHT App displays, press and hold with two fingers in an empty On an iPad device, press PA-INSIGHT to start the INSIGHT App. After DRC INSIGHT Properties on an iPad" on page 102). part of the screen to display the System Readiness Check (see "Setting

On a Chromebook device, click the Readiness Check link to display the

and fields because of the way Chromebooks are configured using the Readiness Check on a Chromebook" on page 116. Device Toolkit. For more information, refer to "Using the System Note: The Chromebook System Readiness Check has different options

Using the System Readiness Check

still meet system requirements and to troubleshoot issues After installing INSIGHT, use the System Readiness Check to determine whether your testing computers

The **Installation Directory** field indicates the directory where INSIGHT is installed.

server (if configured). field indicates the URL The HTTPS Proxy to the secure proxy the name of the testing computer. The Machine Name field indicates https://MGWS11274:8443/ esponse Caching TSM Connection 0 3 0 3 0 MGWS11274 3 0 0 3 OS Le Audio C RAM Internet Co Screen Reso Content Caching TSM Version itent Caching TSM Connection se Caching TSM Version se Caching TSM Status se Caching TSM Connection Load Results Execute Tests Test Audio DRC INSIGHT Properties Exit bbalderson Copyright @ 2014 Data Recognition Corporation Required Test List System Information Microsoft Windows 7 Enterprise Edition Service Pack 1 (build 7601), 64-bit https://MGWS11274:8443/ that is installed on the testing computer. indicate the operating system and level The OS Level and OS Version fields Details 6.1

The **Content Caching TSM Configuration** field indicates whether content caching is configured and the **Content Caching TSM Connection** field indicates the URL to the content caching server (if configured).

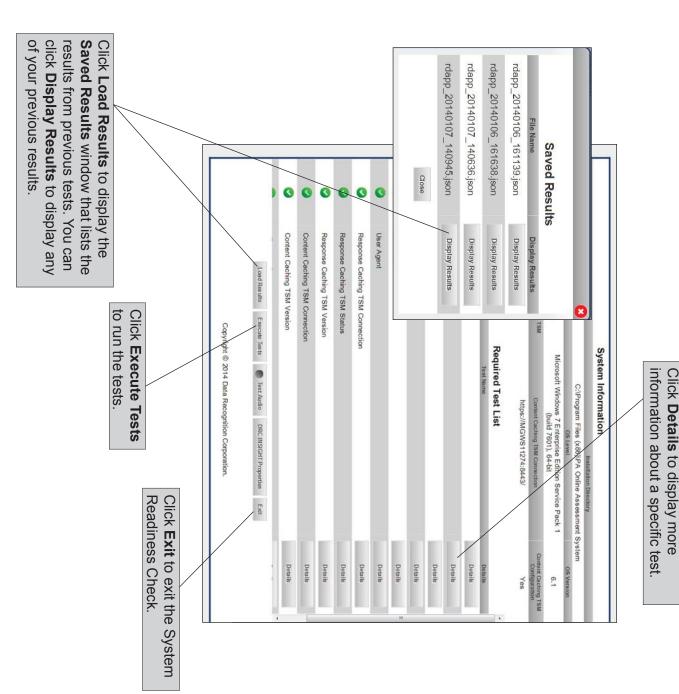
whether response caching is configured and the Response

The Response Caching TSM Configuration field indicates

Caching TSM Connection field indicates the URL to the

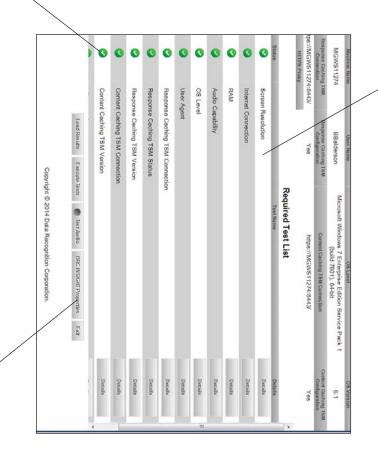
response caching server (if configured).

Using the System Readiness Check (cont.)



Using the System Readiness Check (cont.)

When you click **Execute Tests**, the System Readiness Check runs all of the tests from the required test list and displays the results.



Click **DRC INSIGHT Properties** to display a dialog box you can use to update the connection information for your TSM server, or to enable or disable TSMs (see "Setting DRC INSIGHT Properties" on page 169).

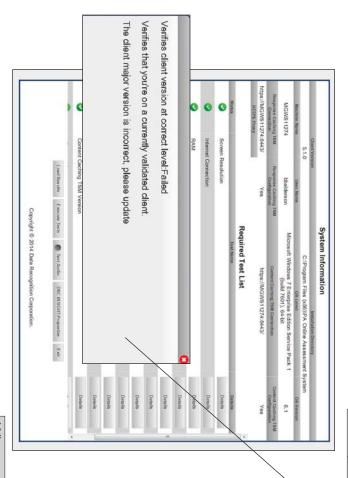
Various icons indicate the status of a test.

- A green check mark icon () indicates that the testing computer passed the test.
- A red exclamation point icon () indicates that the testing computer failed the test
- A grey icon () indicates that the test is not applicable to the configuration
- appears if the operating system is valid but the level/version of the operating A yellow check mark icon ([]) may display for the OS Level check only. This icon system has not been tested by DRC.

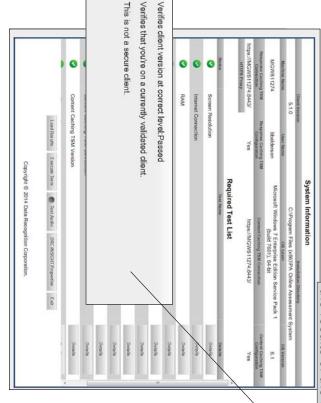
Using the System Readiness Check (cont.)

You can display details about the System Readiness Check before and after the tests. For a description of these tests, see "The System Readiness Required Tests" on page 164.

When you click **Details** before you execute a test, a window displays a description of the test.



When you click **Details** after you execute a test, a window displays the results of the test.



The System Readiness Required Tests

the test. for online testing. The following table lists and describes each test plus the minimum requirements to pass The System Readiness Check performs a series of required tests to determine whether the computer is ready

Test	Description	Required to Pass
Screen Resolution	Verifies that the screen width and height are sufficient to display the online tests.	A minimum screen size of 1024 x 768 pixels.
Internet Connection	Verifies that the computer is connected to the Internet and that the connection speed is fast enough for testing.	The computer and browser must have a ping (connection) time of no more than 250 milliseconds
RAM	Verifies that the computer has enough memory for online testing.	512 MB of RAM (768 MB for VSL)
Audio Capability	Verifies that the computer has the audio capability needed for online testing and/ or tutorials.	The computer must have one or more audio channels and be able to play MP3 audio files.
OS Level	Verifies that the operating system is supported and at a level required for online testing.	See "INSIGHT System Requirements" on page 18 for the supported operating systems.
User Agent	Verifies that the web browser will work for the unsecured, practice tests—the Online Tools Training, or OTT.	An up-to-date Chrome browser.
Response Caching TSM Connection	Verifies that the INSIGHT test engine software on the testing computer can connect to the TSM response caching server.	The connection to the TSM response caching server must be working.
Response Caching TSM Status	Verifies that the TSM contains no unsent student responses.	The TSM must contain no stored responses.
Response Caching TSM Version	Verifies that the version of the TSM response caching server is the most recent.	The TSM response caching server must be the latest version.
Content Caching TSM Connection	Verifies that the INSIGHT test engine software on the testing computer can connect to the TSM content caching server.	The connection to the TSM content caching server must be working.
Content Caching TSM Version	Verifies that the version of the TSM content caching server is the most recent.	The TSM content caching server must be the latest version.
Client Version	Verifies that the version of the client software will work with the secure browser.	The base level of the client software must be up to date.
Folder Permissions	Verifies that you have permission to read and write to the installation folder.	Read/write access to the installation folder.

Resolving System Readiness Required Tests

It also describes the steps to take to resolve these issues. This section describes various issues you may experience when you run the System Readiness Check tests.

Issue 1. Screen Resolution Error

change the screen resolution (see "INSIGHT System Requirements" on page 18 for the supported resolution) If it fails, the machine's resolution is not high enough to meet the minimum system requirements. You must This test verifies that the screen width and height settings meet the minimum system requirements

Issue 2. Internet Connectivity Error

Allow, or Unblock?" on page 199). proxy issue. Make sure that everything is whitelisted (see "Question 1: I Don't Know What to Whitelist, The testing workstation cannot reach the DRC servers through the Internet. This is usually a firewall or

Starting or Running the System Readiness Application

If the error occurs when you are starting or running the System Readiness application, do the following:

- Verify that you have no bandwidth issues and that you can reach the DRC servers
- 2 the Internet Explorer Internet settings. You also can set them using the System Readiness software (see The Windows environment does not always capture proxy settings correctly. Usually, Windows uses "Setting DRC INSIGHT Properties" on page 169).
- S Contact your Internet Service Provider (ISP) and verify that it is not filtering or throttling your connection with DRC
- 4. Verify that you have all of the DRC addresses whitelisted.

Issue 3. RAM Error

must upgrade the amount of memory in the computer to meet the minimum system requirements This test verifies that the system's memory meets the minimum system requirements. If this test fails, you

Issue 4. Audio Capability Error

device this test fails, verify that the computer's sound card is working and that the computer has a valid playback This test verifies that the computer has the audio capability needed for online testing and/or tutorials. If

Issue 5: OS Level Error

supported operating system, the test verifies that your setup meets the minimum system requirements. In untested version of a supported OS addition to supported vs. unsupported operating systems, there is also a warning if the machine is using an This test verifies that INSIGHT is running on a supported operating system. If the machine is running a

Resolving System Readiness Required Tests (cont.)

Issue 6. User Agent Error

This test verifies that the web browser is correct for online testing

Issue 7. TSM Connection Error

computers that use the TSM server must be able to connect to the TSM. The testing client (workstation) is configured to use the TSM, but it cannot connect to it. All of the

the TSM is installed server name into an IP address and not excluding the TSM from the system firewall on the computer where 1 Important: The two most common reasons for TSM connectivity issues are difficulty translating the

You are not Using the TSM

Turn off the TSM in INSIGHT and do one of the following

- json, in a text editor (you must have administrator privileges to edit this file), and change the LCSURL parameter string to "LCSURL": "" In the installation directory, edit the properties file < DRC INSIGHT Install Folder > \DRCConfiguration
- Reinstall INSIGHT and do not use the TSM.

You are Using the TSM

- <u>-</u> From the System Readiness application, verify that the TSM server settings are correct.
- 2. Verify that the TSM service is running.
- က on some of the machines that are receiving the error. Verify that the TSM is reachable. Open the TSM both on the computer where the TSM is installed and
- 4 Make sure that any Antivirus/Firewall/Proxy between, or on, the client and server is open. Also, ensure that both the testing client and the TSM are whitelisted.
- should be allowed, whitelisted, and unblocked Note: See "Question 1: I Don't Know What to Whitelist, Allow, or Unblock?" on page 199 to verify what
- **5**. Try setting the proxy settings manually.
- 9 host the TSM. Make sure no other VMs on the server are running a web server on ports 8080 or 8443 Verify that no other web servers are running. Check whether a Virtual Machine (VM) is being used to

Resolving System Readiness Required Tests (cont.)

Issue 8. TSM Response Caching Error

responses that have not been transmitted. The TSM server has not transmitted all of its stored responses. This test fails if there are stored student

Note: Students cannot log in if there are stored responses in the TSM

- 1. Start the TSM.
- 2. Select Response Caching-Unsent Responses.
- Ç Verify whether there are unsent tests and click **Transmit Responses** if there are

Issue 9. TSM Version Error

The TSM is not the latest version. You must uninstall it and reinstall the latest version

- Uninstall the TSM (see the Installation chapters) and verify that it was uninstalled correctly.
- . Reinstall the TSM from eDIRECT (see the Installation chapters).
- Ç Rerun the System Readiness checks (see "Using the System Readiness Check" on page 160) to verify that the TSM is the latest version.

Issue 10. Client Version Error

prompted to update your software, click Update). The client software (INSIGHT) is not the latest version. You must download the latest version (if you are

DRC INSIGHT Properties

server, and other testing servers. You can do the following: properties for your testing computers (the client systems), your TSM You use the DRC INSIGHT properties to specify certain system

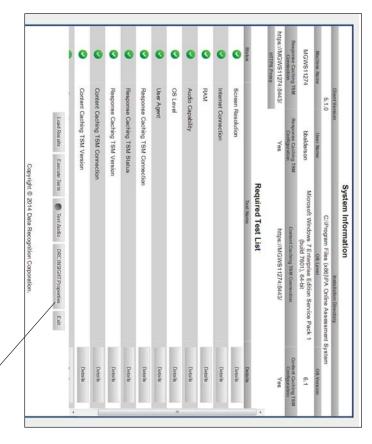
- Enable or disable automatic software updates.
- Specify proxy settings for both your unsecured (http) and secured (https) host servers.
- Enable or disable a TSM.
- Specify which server is the content caching and/or load simulation TSM server, and the port it uses for communication.
- Specify which server is the response caching TSM server and the port it uses for communication.
- computer (required for Load Simulation Testing*). Select the district and school name associated with the testing

servers to help ensure that everything is set up correctly for testing the load and route of the data from the testing workstation to the DRC *The Load Simulation Tool is software that simulates and tests both Simulation Testing Questions" on page 190). (see the sections "Load Simulation Testing" on page 149 and "Load

"Setting DRC INSIGHT Properties" on page 169). You specify these properties by selecting DRC INSIGHT Properties (see

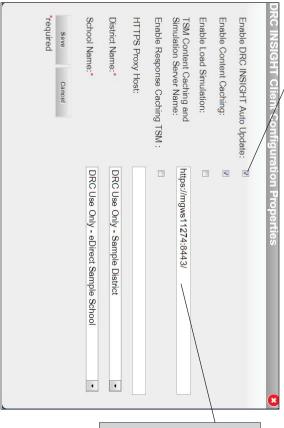
Setting DRC INSIGHT Properties

path to a secure proxy host, and the name of the district and school associated with the testing computer. content caching and/or load simulation tests, the path to the TSM server you use for response caching, the you can use to enable or disable automatic software updates, specify the path to the TSM server you use for When you select DRC INSIGHT Properties from the Required Test List window, a dialog box displays that



You can enable or disable Auto Updates of the INSIGHT software ("Automatic Software Updates" on page 26).

Click **DRC INSIGHT Properties** to display the DRC INSIGHT Configuration Properties dialog box. From this dialog box you can review your INSIGHT configuration and make changes to it.

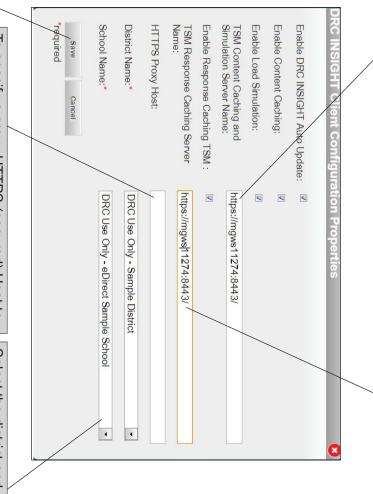


To specify a server to use for test content caching, check **Enable Content Caching** and enter the server name (or IP address*) and port number in the TSM Content Caching and Simulation Server Name field. The last character in the server address string must be a forward slash (/).

Setting DRC INSIGHT Properties (cont.)

To specify a server to use for load simulations, check **Enable Load Simulation** and enter the server name (or IP address*) and port number (separated by a colon) in the TSM Content Caching and Simulation Server Name field. The last character in the server address string must be a forward slash (/).

To specify a server to use for test response caching, check **Enable Response Caching TSM** and enter the server name (or IP address*) and port number (separated by a colon) in the TSM Response Caching Server Name field. The last character in the server address string must be a forward slash (/).



To specify a proxy HTTPS (secured) Host to use for the TSM, enter the server name (or IP address*) and port number (separated by a colon) in the HTTPS Proxy Host Name field. The last character in the server address string must be a forward slash (/).

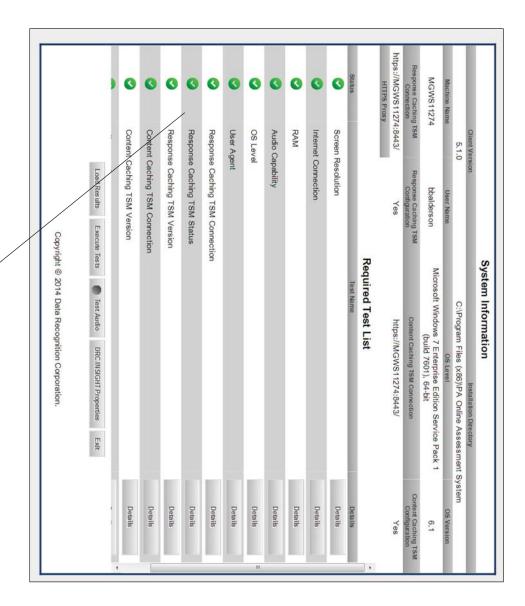
You must restart the testing computer to make this change.

Select the district and school for the testing computer from the **District**Name and School Name drop-down menus. These names are used for the reports generated from the load simulations tests.

Click **Save** to save your changes or **Cancel** to cancel them.

testing computers that connect to that TSM computer is restarted or rebooted). If the IP address of a TSM machine changes, you must reconfigure the [] Important: *A TSM server should have a static IP address (an IP address that does not change when the

Setting DRC INSIGHT Properties (cont.)



If you made any configuration changes, the System Information window displays the results of the System Readiness Check tests for those changes.

Notes

Appendix A: Error Messages

Error Messages

What's Covered in This Appendix

> and provides recommendations to resolve them. This Appendix describes some of the more common error messages you may encounter while installing, configuring, and using DRC INSIGHT,

For some messages, there are references to a more detailed description of how to resolve the error.

INSIGHT and TSM Error Messages

resolve them. This section describes common INSIGHT and Testing Site Manager (TSM) error messages and methods to

Message: Connection Error Retrieving Content

Please contact your local IT staff to verify network connection is working. They can contact DRC Customer Support if they need additional help to resolve the matter.

connection error occurred while trying to download the form. Description: The testing client is not able to connect and download the test form from DRC. This

prioritize testing traffic. If possible allow testing traffic to bypass as many network devices as the whitelisting and firewalls to and on the TSM (see "Issue 7. TSM Connection Error" on page 166). possible. Ensure that bandwidth is not being completely consumed. If you are using a TSM, verify What Should I Do? If the issue persists check your whitelisting on your network devices and

Message: Could not retrieve testing information.

Possible connection error while attempting to retrieve device configuration.

Description: INSIGHT is unable to determine the identify of the Chromebook device

is registered in the DRC INSIGHT Device Toolkit (see "Registering Devices" What Should I Do? Check you network connection and retry. Verify that the Chromebook device on page 122).

Message: Download of Upgrade Failed

Your upgrade failed because the download was unsuccessful.

Description: The testing client tried to upgrade but was unable to download the update.

What Should I Do? Try one or more of the following actions

- 1. Retry the update
- Verify your whitelisting settings.
- 3. Manually update the testing client

Error Messages

Message: Guided Access Is Not Enabled.

Please raise your hand and wait for help

Description: Guided Access must be started on the iPad device before students log in and begin

on page 96) What Should I Do? Start Guided Access on the iPad device (see "Working with Guided Access"

Message: Idle Error -- Responses Stored

Your session has been ended due to inactivity. Please click the OK button to proceed

Description: The test session ended due to inactivity and auto shut down testing

responses have been transmitted from the TSM. What Should I Do? The student testing should log in again and continue testing after the

Message: Internet Connection Error

computer to continue testing. If this error persists, contact your local IT staff to verify network and help to resolve the matter. Internet connections are working. They can contact DRC Customer Support if they need additional There has been an interruption in Internet connection. The student may be moved to another

unable to reach DRC or the TSM (if connected). Description: There was an interruption in the Internet connection and the testing client was

testing traffic. Allow testing traffic to bypass as many network devices as possible. Ensure What Should I Do? If the issue persists, check whitelisting on your network devices and prioritize bandwidth is not being completely consumed (see "Issue 2. Internet Connectivity Error" on page 165).

Message: No TSM Configured

A TSM must be configured when using audio. Please contact an administrator

is configured **Description:** The testing client is trying to log into an audio test that requires a TSM, but no TSM

What Should I Do? Connect the testing client to a TSM for content caching

Message: Operating system version xxx is not supported by DRC INSIGHT

INSIGHT team. You may experience issues while taking the test or be unable to complete the test. The version of the operating system on this testing device has not been fully tested by the DRC

operating system has not been tested by DRC. Description: The operating system on the testing device is valid, but the version or level of the

or test on a different device that is using a supported level of the operating system (see "INSIGHT What Should I Do? Install a supported level of the operating system before you continue testing, System Requirements" on page 18).

Message: Previous Login May Have Unsent Responses

need additional help to resolve the matter. your local IT staff to check for unsent responses. They can contact DRC Customer Support if they (TSM). The student cannot continue testing until any stored responses are sent. Please contact The responses for the student's previous login to this test may have used a Testing Site Manager

testing client must verify that there are no unsent responses on the previous TSM before the student can continue testing. Description: The last login for this ticket saved responses, or tried to save responses, to the TSM. This login is either not connecting to the same TSM, or is not connecting to any TSM. The

verify that there are no unsent responses. Start the TSM, select Response Caching-Unsent What Should I Do? The testing client must connect to the same TSM as their previous login to Responses, and click Transmit Responses

Message: Previous Login with Unsent Responses

if they need additional help to resolve the matter. Manager (TSM). The responses must be sent by the TSM before the student can continue testing. Please contact your local IT staff to send the responses. They can contact DRC Customer Support The responses for the student's previous login to this test are still stored on the Testing Site

submitted yet. **Description:** The last login for this ticket saved responses to the TSM and they have not been

Unsent Responses, and click Transmit Responses What Should I Do? Submit the unsent responses. Start the TSM, select Response Caching-

Error Messages

Message: Session Ended

contact DRC Customer Support if you need additional help to resolve this matter. their assigned login. If the student is actively testing on another computer, click OK. Please Another session has been activated with this student's login. Please confirm the student is using

Description: Someone else has logged in with the same credentials on another computer.

student is not using them, and have the student login again. What Should I Do? Verify that the student is using the correct testing credentials and that another

Message: Session Status Outside Window

Testing is currently unavailable. Please contact an administrator.

Description: The test ticket that is trying to be logged into is in a test session where the window is

What Should I Do? Move the student to a test session in an appropriate testing window

Message: Test Exit! Responses Stored on TSM

workstation or device to complete the test. Please contact your local IT staff to confirm the TSM been saved to the Testing Site Manager (TSM). The student should return to the same testing help to resolve this matter. is cleared by the end of the day. They can contact DRC Customer Support if they need additional There has been an interruption in Internet connection. All of the student's responses have

the same TSM to complete the test. continue testing, the TSM must submit the responses for the student. The student must connect to while saving responses to the TSM. The test has not been completed, so before the student can Description: During testing the testing client lost connection with DRC. The test continued

are unsent responses, click Transmit Responses. If that doesn't work, contact your System Caching-Unsent Responses, and verify that the TSM displays No unsent responses! If there be able to continue testing until the responses are submitted. From the TSM, select Response What Should I Do? Make sure the TSM submits all the unsent responses. The student will not Administrator, or see "Issue 2. Internet Connectivity Error" on page 165

Message: Test Version Error

further support is required, contact DRC Customer Support. students testing. Please contact your local IT staff to update the Testing Site Manager (TSM). If The form the student is trying to access is not available. The form must be downloaded prior to

Description: The form the testing client is trying to download from the TSM is not available

What Should I Do? Download the form onto the TSM (see "Question 2: How Do I Update Test Forms in a TSM?" on page 200).

Message: Test Version Error

Site Manager (TSM). If further support is required, contact DRC Customer Support. be downloaded prior to students testing. Please contact your local IT staff to update the Testing The test the student is trying to access is not the most up-to-date version. The latest version must

Description: The form on the TSM is not up to date.

in a TSM?" on page 200). What Should I Do? Update the form on the TSM (see "Question 2: How Do I Update Test Forms

Message: Testing Complete! Responses Stored on TSM

There has been an interruption in Internet connection. All of the student's responses have been saved to the Testing Site Manager (TSM). The TSM will send the responses for scoring. Please contact your local IT staff to confirm the TSM is cleared by the end of the day. They can contact DRC Customer Support if they need additional help to resolve this matter.

Description: During testing the testing client lost connection with DRC. The test continued while saving responses to the TSM. The test has been completed.

contact your System Administrator, or see "Issue 2. Internet Connectivity Error" on page 165 select Response Caching-Unsent Responses, and verify that the TSM displays No unsent What Should I Do? Make sure the TSM submits all the unsent responses. From the TSM, responses! If there are unsent responses, click Transmit Responses. If that doesn't work,

Error Messages

Message: TSM Connection Error -- Could Not Register TSM

contact your local IT staff to verify network and TSM connections are working. They can contact before the student can continue testing. Try logging in again or restarting INSIGHT. Otherwise DRC Customer Support if they need additional help to resolve the matter. This computer cannot connect to the Testing Site Manager (TSM). The problem must be corrected

or on the TSM. Description: The connection to the TSM was lost. All responses should be stored either at DRC

testing client's TSM URL is correct. What Should I Do? Confirm that the testing client can reach the TSM. Also confirm that the

Message: TSM Connection Error -- Responses May Be Stored

additional help to resolve the matter. network and TSM connections are working. They can contact DRC Customer Support if they need be restored before the student can continue testing. Please contact your local IT staff to verify This computer can no longer connect to the Testing Site Manager (TSM). The connection must

or on the TSM. **Description:** The connection to the TSM was lost. All responses should be stored either at DRC

doesn't work, contact your System Administrator, or see "Issue 7. TSM Connection Error" on page What Should I Do? Confirm that the testing client can reach the TSM. Restart the TSM. If that

Message: TSM Connection Error During Login

need additional help to resolve the matter. verify network and TSM connections are working. They can contact DRC Customer Support if they must be restored before the student can continue testing. Please contact your local IT staff to This computer cannot connect to the Testing Site Manager (TSM). The connection or the content

while trying to login. Description: The testing client is not able to connect to the TSM. This connection error occurred

computer's firewall and check your whitelisting on your firewall, content filter, proxies and other What Should I Do? Verify that you can reach the TSM. If the issue persists check your TSM network devices

Message: TSM Connection Error Retrieving Content

contact your local IT staff to verify network and TSM connections are working. They can contact connection or the content must be restored before the student can continue testing. Please DRC Customer Support if they need additional help to resolve the matter. This computer cannot connect to the Testing Site Manager (TSM) to retrieve content. The

Description: The testing client is not able to connect and download the test form from the TSM. This connection error occurred while trying to download the form.

What Should I Do? Verify that all the forms are up to date and that the testing client can reach the TSM.

Message: TSM Content Caching Configuration Error

for Content Caching. Please contact DRC Customer Support if you need additional help to resolve this matter. The Testing Site Manager (TSM) is not configured to deliver testing content. Enter a different TSM

Description: The testing client is configured to download testing content from the TSM, but the TSM is not configured to deliver content.

be corrected in the setup. For example, a URL must be updated What Should I Do? Either the client must be set to not download content from the TSM, or the TSM must be configured to provide content. This is a configuration issue and something needs to

Message: TSM Content Caching Error

configuration. They can contact DRC Customer Support if they need additional help to resolve this not be downloaded from the TSM. Please contact your local IT staff to update your content source The Testing Site Manager (TSM) is not configured to deliver testing content. Testing Content will

TSM is not configured to deliver content. Description: The testing client is configured to download testing content from the TSM but the

updated by making a change to the configuration. What Should I Do? Either the client must be set to not download content from the TSM, or the TSM must be configured to provide content. There is an issue with content caching that cannot be

Error Messages

Message: TSM Response Caching Configuration Error

TSM for Response Caching. Please contact DRC Customer Support if you need additional help to resolve this matter. The Testing Site Manager (TSM) is not configured to store student responses. Enter a different

configured to save responses Description: The testing client is configured to save responses to the TSM but the TSM is not

corrected in the setup. For example, a URL must be updated must be configured to save responses. This is a configuration issue and something needs to be What Should I Do? Either the client must be set to not save responses to the TSM, or the TSM

Message: TSM Response Caching Error

help to resolve this matter. response caching configuration. They can contact DRC Customer Support if they need additional responses will not be saved to the TSM. Please contact your local IT staff to update your student The Testing Site Manager (TSM) is not configured to store student responses. The student

configured to save responses Description: The testing client is configured to save responses to the TSM, but the TSM is not

updated by making a change to the configuration. What Should I Do? Either the client must be set to not save responses to the TSM, or the TSM must be configured to save responses. There is an issue with response caching that cannot be

Message: TSM Version Error

The TSM is out of date. Please contact an administrator.

Description: The TSM is out of date.

software when you installed it, you must uninstall the current version of the TSM and reinstall the What Should I Do? Update the TSM. If you did not specify automatic updates of your TSM

Message: Your client attempted to access an invalid URL

click the OK button to proceed. Your session has been ended because your client tried to access an unsupported address. Please

Description: The client is pointed to the wrong URL. The correct URLs are as follows

BaseURL: https://wbte.drcedirect.com/PA/

StartupURL: https://wbte.drcedirect.com/PA/portals/pa/

UpdateURL: https://pa-insight-client.drcedirect.com/Download/SecureBrowser/VERSIONS.txt

What Should I Do? Fix the URL in the .json file. The file is located at the following locations:

Windows 32-bit
C:\Program Files\PA\DRCConfiguration.json

Windows 64-bit

C:\Program Files (x86)\PA Online Assessments\DRCConfiguration.json

Macintosh

/Applications/PA Online Assessments/DRCConfiguration.json

Message: Your client failed the Readiness Check

proceed. It is possible that the browser that you are using is unsupported. Please download the latest version of Chrome. Your session has been ended because your client is not supported. Please click the OK button to

Description: The testing client has failed a System Readiness Check test

What Should I Do? Use the System Readiness Check to see which test failed and fix the issue. This error can be caused by issues such as an invalid operating system or incorrect screen

Message: Your client is out of date

Your session has been ended because your client is out of date. We will now attempt an upgrade

Description: The testing client is out of date. If Auto Update is enabled, it will now run.

What Should I Do? If you enabled Auto Update, it will run now. Otherwise, enable and run Auto Update, or install the update manually.

Error Messages

Message: Your client is out of date

prior to students testing Your session has ended because your client is out of date. The latest version must be downloaded

testing client manually. Description: The testing client is out of date. Auto Update is not enabled, so you must update the

update (upgrade) manually. What Should I Do? You did not enable Auto Update. Enable and run Auto Update, or install the

Message: Your device has not been registered

The Chromebook device is not registered in the DRC INSIGHT Device Toolkit.

the INSIGHT Device Toolkit. Description: INSIGHT does not recognize the Chromebook device because it is not registered in

device in the Device Toolkit, or use the drop-down menus to select a district, school, and ORG What Should I Do? Use the Device ID displayed in the message to register the Chromebook Unit for the device (see "Registering Devices" on page 122).

Message: Your device has not been registered

The Chromebook device was already registered in the DRC INSIGHT Device Toolkit.

the Chromebook was registered successfully, but the registration was lost/deleted when the and state after sign-out was accidentally set to Erase all local user data after each sign-out, Chromebook was restarted. Description: Because the Google Admin Console setting for Erase all local user info, settings,

sign-out in the Google Admin Console is set to Do not erase all local user data (see below). What Should I Do? Verify that the setting for Erase all local user info, settings, and state after



Appendix B: FAQs, Hints and Tips

What's Covered in This Appendix

environments: questions and answers are technical in nature and cover the following using DRC INSIGHT and the Testing Site Manager (TSM) software. The as well as helpful hints and tips, regarding configuring, installing, and This Appendix contains a list of frequently asked questions (FAQs),

- Windows
- Macintosh (OS X)
- Linux
- iOS (iPads)
- Chrome OS (Chromebooks)

techniques, and workarounds to resolve them. common technical support issues you may encounter, and provide tips, addition, the Common Technical Questions and Answers cover the The FAQs and Hints and Tips are divided into various categories. In

General Questions

- Q1: Is the TSM in the Mac environment a true service that runs when no one is logged in to the server?
- \geq It is a true service--it runs using the "Launchd" capability of OS X.
- Q2: If our TSM "goes down" or is unavailable, will a test running again? automatically bypass the TSM, or are we stuck until the TSM is
- \geq If the TSM goes down, testing stops. If the computers are configured to use a TSM, the TSM must be available.
- Q3: Is there a way to provide failover TSM service? Or a quick way to redirect service if a server fails during the testing window?
- A: There is nothing built into the software.
- Q4: Do we use an .msi file for installation?
- system: The INSIGHT and TSM installation file types vary by operating
- file for INSIGHT. The Windows version uses an .exe file for the TSM and an .msi
- The Mac (OS X) version uses a .dmg file for the TSM and a .pkg file for INSIGHT.
- INSIGHT. The Linux version uses a .deb file for the TSM and a .sh file for

Q5: I tried removing the TSM and reinstalling it, but now I can't seem to use it?

- \geq Files (x86)\TestingSiteManager. After you remove the TSM, if this folder. On a Windows 7 machine (64-bit), the folder is C:\Program folder still exists, delete it before you reinstall the TSM. Verify that the uninstallation process removed the TSM installation
- Q6: Do we have to have a TSM server in each school, or can it be on a shared district server? If so, which approach do you recommend?
- \geq the Internet to your TSM. dedicated TSM server you can offload about 50% of the traffic from It depends on your network's capacity and reliability—with a
- share a TSM if you have enough network capacity. TSM, we recommend one TSM per school. But, you may be able to Because student computers need uninterrupted connectivity to the

■ General Questions (cont.)

Q7: updates? Do we need to go to each student's computer to enable automatic

 \geq the INSIGHT software. After installation, INSIGHT automatically checks for software updates and installs them whenever it is No. Just remember to enable automatic updates when you install launched.

Q8: How are test responses received?

 \geq It depends on whether a TSM is installed and how it is configured.

If a TSM is installed and configured for content caching

test responses directly to DRC. After students log in, they download the test from the TSM and send The students log in first. INSIGHT always contacts DRC to log in.

If a TSM is installed and configured for response caching

continues sending responses to the TSM until the student completes tries to submit them to DRC every fifteen minutes. The student computer starts sending the test responses to the TSM. The TSM the test, pauses, or exits and logs back in. If there is an interruption in internet connectivity, a student's testing

Note: Students cannot log back in while their responses are still on

If there is no TSM installed

Internet connectivity problem, the student is unable to continue from DRC and responses are sent directly to DRC. If there is an The student logs in by connecting with DRC. Tests are sent directly

Q9: How do I test that a TSM is working?

A: Start the System Readiness Check on a testing computer.

the software is located at C:\Program Files (x86)\PA **Online Assessments**\Readiness For example, on a Windows 7 machine (64-bit), a shortcut to This software is in the installation directory of the testing client.

To confirm that the TSM is being used, do the following:

- 1. Verify that the TSM settings are showing up in the System Readiness Check.
- 2. Click Execute Tests in the System Readiness Check.

■ General Questions (cont.)

3. What you do next depends on the type of caching you have configured.

If you have content caching configured, check the results for Content Caching TSM Connection, Content Caching TSM Status, and Content Caching TSM Version.

If you have response caching configured, check the results for Response Caching TSM Connection, Response Caching TSM Status, and Response Caching TSM Version.

to work with a TSM. Verify that a TSM is being used and check the test details for more information. These results tell you whether the testing client is set up correctly

sign in, and take a training test to verify that you can connect to Click the desktop shortcut for PA Online Assessments, select, the TSM.

Q10: Can we install INSIGHT on one central server/computer and use shortcuts, or other links, to share it for testing across different machines?

 \geq may produce unexpected results. will be used for testing. Any other configuration is unsupported and No. DRC assumes that INSIGHT is installed on each computer that

Q11: The sound for Text-To-Speech does not work. What should I do?

 \geq Tests" on page 165). Adjust the volume before testing. Capability) is working (see "Resolving System Readiness Required Run the System Readiness Checks and verify that the sound (Audio

LoadSimulationTestingQuestions

Q1: What is the Load Simulation Tool?

 \geq It's a software tool that Technology Coordinators (TCs) can use to will take to download tests and upload responses. perform load simulations that help estimate the amount of time it

Q2: How many testing devices should we use for a simulation? Can we use just one?

 \geq computer labs that will perform online testing. DRC recommends that you include all of the schools and all of the

simulation test with more than 100 devices per TSM may cause the TSM to become unresponsive. You may have to uninstall and reinstall the TSM. testing devices per TSM to 100. Attempting to perform a load [] Important: For a load simulation test, limit the number of

Q3: How many times should I run the simulation?

 \geq source for form content and once specifying DRC as the source for DRC recommends that you run the simulation three times during form content (see "Load Simulation Testing" on page 149). your load simulation testing. Run it twice specifying the TSM as the

Q4: What metrics are reported?

 \geq A load simulation test reports the following for each testing device:

- (based on configuration) The source for the content: TSM, DRC, or the client computer
- on average. The amount of time it took to load the test to the testing device,
- The time it took to submit the result to DRC
- The combined time for the load test and submit result.

see "Load Simulation Testing" on page 149. For more information and a description of the summary results,

Simulation Testing Questions (cont.)

Q5: What are acceptable results for test load and response times?

 \geq required for the final test submission. response, the wait time between each test question, and the time combined time that factors in the time required to submit each test load simulation test should be less than 60 seconds. This value is a 60 seconds. We also suggest that the Avg Submit Test time on the performed, we suggest that the test load time should be less than As a result of the Technology Readiness Assessments that DRC has

Simulation Results" on page 154. For a description of all summary results, see "Analyzing Load

testing at one time. adjust their technical configurations and/or the number of students acceptable response times for their students. If necessary, they can Districts should analyze their results and set what they feel are

I iPad Questions

Q1: Do I install a TSM on an iPad or Chromebook?

 \geq (OS X) computer, or Linux machine, and connect to the TSM when a result, you must install the TSM software on a Windows PC, Mac Chromebooks do not provide a suitable environment for a TSM. As responses. For various reasons, tablet devices (such as iPads) and A TSM is used primarily to cache and manage test content and you install INSIGHT on the tablet device or Chromebook.

Q2: Can the DRC INSIGHT iPad App be distributed without an MDM as an .ipa file using iTunes or other software/methods?

A: No.

Q3: Management (MDM) software? Does DRC recommend any particular version of Mobile Device

 \geq software, you must use a version that supports the Managed App will distribute INSIGHT. To configure INSIGHT using the MDM No, there are many versions of MDM software, any of which Configuration feature (originated in iOS 7).

Q4: Is iOS 8 supported?

A: Yes, currently iOS 8.1.3 and 8.2 are supported.

Q5: supported for testing? Is custom installation of the Apple virtual (internal) keyboard

 \geq testing, but can be toggled on using an iPad function key Yes—the internal keyboard does not display automatically during

removed from the user settings and that students are using only an If you are testing with iOS 8 be sure that the Emoji keyboard is English keyboard.

Q6: What features need to be on or off to securely test with an iPad?

 \geq activate the Guided Access feature. Ensure that Check Spelling, Predictive Text, Auto-Correction, and Auto-Capitalization are turned off on each iPad device, and enable/

students to have the passcode. Note: Apple requires a Passcode (numeric password) to activate Guided Access. This passcode must be secure-—do not allow

Q7: Is an external Bluetooth keyboard required for testing with

 \triangleright must pair one keyboard with one iPad. open-ended items. If you use external Bluetooth keyboards, you An external Bluetooth keyboard is required for all tests with

ChromebookQuestions

Chromebooks for secure assessment, detailed at the link below: and the ability to print. Google provides three scenarios for setting up during an exam in addition to disabling external storage, screenshots, Chromebooks can be set to disable students' access to browse the web testing standards. If configured according to Google specifications, assessments. When set up properly, these devices meet K-12 education Chromebooks can be a secure platform for administering student

https://support.google.com/chrome/a/answer/1289314?hl=en

If you need help setting up your Google Administrator account or enrolling Chromebooks, please contact Google directly.

Q1: Of the three secure testing scenarios provided by Google, which one did DRC select and why?

 \geq DRC INSIGHT App. test, the Chromebook device can be used for any purpose, secure or an exam on the Chromebook using the DRC INSIGHT App in secure testing, DRC selected Scenario 1 where the student takes assessments. Although each scenario prepares a Chromebook for otherwise-App runs in a secure, full-screen mode. After the student exits the Single App Kiosk Mode. While the student tests, the INSIGHT the specifications of Google's Scenario 1 for delivery of secure DRC developed the Chromebook INSIGHT application to meet -the Chromebook is only secured during testing with the

Scenario 1

DRC specifically selected Scenario 1 because:

- delivery (Single App Kiosk Mode). It is the only scenario that allows for fully secure assessment
- the TSM. It allows the DRC INSIGHT App to communicate securely with
- purposes when the INSIGHT App is not being used for testing assessment purposes. Students can use the Chromebook for other It does not require locking down the device and dedicating it for
- that does). It provides students a full-screen environment (the only scenario

Chromebook Questions (cont.)

Scenario 2

to allow for additional restrictions needed during assessment separate student profiles—assessment and non-assessmentthis feature is not enabled, test administrators must maintain sessions. feature is enabled, non-assessment sign on is not allowed. When Chromebook will be used solely for testing purposes. When this feature for secure assessment delivery, which assumes that the In contrast, Google's Scenario 2 includes a restricted sign-in

that is difficult to detect. It also requires taking the test in the management of security permissions making it prone to user error be cleared of data (wiped) upon exiting the test. have access to one URL). Finally, the Chromebook device must (essentially launching the user into a desktop session where they (for example, creating accounts twice). And, it requires manual Scenario 2 requires a higher level of administration oversight Chrome browser, or manually launching a non-kiosk application

Scenario 3

are other considerations with Scenario 3: known conflicts with Chrome packaged Apps. In addition, there possibility of TSM integration and secure content delivery due to to limit user access to non-assessment-related features of the In Scenario 3, Google's Public Session Kiosk Mode is used Chrome OS operating system. Using Scenario 3 negates the

- The URL and taskbar at the bottom of screen are visible. This down the test content. consumes screen space and means the test engine must scale
- Students can open additional Chrome windows
- another machine. Students can use a command line shell that allows access to
- Test-Exit. This could mean lost test responses is running, instead of using Pause-Exit or Review-End Students can close the Chrome window while the test engine

Chromebook Questions (cont.)

Q2: write down the Device ID? Does DRC require users to log in to each Chromebook and

- \geq to use the DRC INSIGHT App: Not necessarily. There are two options for registering Chromebooks
- Chromebook will be registered. user starts the DRC INSIGHT App on the Chromebook, the the user to know the Chromebook's Device ID). When the Chromebook devices with an ORG Unit (this method requires Use the DRC Device Toolkit to create one or more DRC ORG Units (with or without a TSM configured) and associate the
- display) using the District, School, and ORG Unit drop-down will request the user to register the device (the Device ID will INSIGHT App on the Chromebook. The DRC INSIGHT App Use the DRC Device Toolkit to create one or more DRC ORG menus that display. Units (with or without a TSM configured). Then, start the DRC

or to move registered Chromebook devices between DRC ORG use the DRC Device Toolkit to associate a TSM with an ORG Unit, required. Regardless of the method used, at any time the user can Using the second method, no manual entry of the Device ID is

the System Information at the top of the page. DRC INSIGHT App portal page) displays the Device ID as part of Note: The System Readiness Check (available through a link on the

Q3: Why does DRC require Google Apps for Education and the **Google Administrator accounts?**

 \geq best approach to managing these devices in terms of efficiency and The DRC INSIGHT Chrome App requires Single App Kiosk for multiple Chrome devices from a central console. This is the management allow Chrome administrators to manage kiosk apps Chrome devices. Google Apps for Education and Chrome device mode to launch and ensure a secure testing environment on

described in Q1: requirements for secure testing using any of the three scenarios part of the initial implementation. Google specifies two additional DRC assumes that users have registered their Chromebooks as

- manage their Chrome devices from a single location. Google administrators must use Chrome device management to
- Google administrators must enroll each device in the school's

ChromebookQuestions(cont.)

Q4: How is installing DRC INSIGHT different than installing other testing applications that districts may be using?

 \geq testing sessions the Chromebook, these processes require a workaround to secure the settings to restrict access. Since there is no secure testing App for a TSM. These processes rely on Chromebook user account or other application, the process would not necessarily use a secure App or work with the TSM using the DRC Device Toolkit. For a different and deployed using Chrome device management and configured to The DRC INSIGHT Chromebook App is configured to be secure

Does the deployment or installation of DRC INSIGHT require the assessment window? the Chromebooks to be dedicated to testing for the duration of

 \geq ending and submitting their tests. responsible for monitoring testing and ensuring students are properly use the Chromebook for other purposes. Test Administrators are INSIGHT App, the student can execute other applications and test ticket. After a student has finished a test and exits the DRC secure testing environment that the student accesses using a unique secure DRC INSIGHT App is. The DRC INSIGHT App is the No, the Chromebook device is not dedicated to testing, but the

Q6: Does Google provide a method to mass deploy secure testing configurations to Chromebooks?

 \geq management. Currently, Google's release timetable is unknown. users to "push" a secure testing configuration using Chrome device As DRC understands it, Google is working on a feature to allow

Q7: How do I configure Chromebooks to work with DRC INSIGHT?

 \geq configure and manage your Chromebooks after you have registered DRC provides the DRC INSIGHT Device Toolkit that you can use to them in your Chrome domain.

Q8: Can I use DRC INSIGHT on a touch-enabled Chromebook?

 \geq touch function and use a mouse, it may be possible to run DRC At this time, DRC INSIGHT is not supported on touch-enabled INSIGHT. Chromebooks. If your Chrome devices allow you to disable the

General Hints and Tips

devices The following are hints and tips for testing with iPad and Chromebook

- Internet connectivity. Be sure to have a strong network connection, either Wi-Fi or direct
- Make sure the device's keyboard is set to English
- Make sure the devices are either fully charged or plugged in.
- An optical drive is not required.
- operates in Single App Kiosk Mode. While you are running the DRC INSIGHT application, the system
- DRC INSIGHT displays in landscape mode only.
- Use the following finger taps/presses to navigate DRC INSIGHT:

iPad Hints and

Tips

- Show System Readiness Check = two-finger press (hold)
- **Show Version** = two fingers plus three taps
- For calculators, click the **OK** button versus the Return key. Using the Return key on your keyboard will not work as an 'Enter' function.
- home key and type in the device passcode (if applicable). goes black and users can touch any key to re-activate it, or press their All iPad devices have a Sleep Mode setting. In Sleep Mode the screen

The DRC INSIGHT timeout warning is not visible when an iPad is in Sleep Mode. To disable Sleep Mode, select **Settings-General-Auto-Lock** and select **Never**.

Note: School iPad profiles may not permit you to set this to Never.

- Smaller graphing and dragging elements may be difficult to track because the user's finger covers the item.
- gesture is not supported The pinch-to-zoom in/out iOS gesture is supported; the swipe iOS
- toggle it on using the appropriate iPad function key. The internal keyboard will not display during test execution. You can
- External keyboards are not required for tests with open-ended items.
- to touching it. The Audio starting point does not turn red when your finger gets close
- All non-OTT tests require you to turn on the Guided Access feature Access, enable Guided Access and Passcode. Under Device Settings-General-Accessibility Learning-Guided

testing begins (see "Working with Guided Access" on page 96). Note: Administrators must ensure that this passcode is set before

ChromebookHints and Tips

the concept of ORG Units. These are not the same ORG Units that using it with INSIGHT. As part of the enrollment process, Google uses DRC uses in the Device Toolkit. You must enroll a Chromebook in your Google domain account before

helps you manage your device configurations. have set up Google Apps for Education and have enrolled all of your To prepare for the Chromebook administration, please ensure that you Chromebooks in the Google Device Manager software. This software

google.com/chrome/a/answer/1289314?hl=en&ref_topic=2935995 your basic Chromebook environment, see the topic https://support. For more information about managing Chromebooks and setting up

enrolling Chromebooks, please contact Google directly. If you need help setting up your Google Administrator account or

- the Chromebook device configuration process. The DRC INSIGHT Device Toolkit manages the INSIGHT portion of
- Device ID is different than the serial number of the Chromebook When you use the Device Toolkit to create DRC ORG Units and group Chromebooks, DRC assigns each Chromebook a Device ID. This
- Google uses the Chromebook's serial number to enroll the Chromebook in the Google domain.
- DRC uses the Chromebook's Device ID to register the Chromebook in a DRC ORG Unit.

current Device ID. To help manage and organize your Chromebooks, keep track of the

the INSIGHT App. Mode. To access INSIGHT, log out of your Google account and start message displays indicating that you are not in Single App Kiosk Google account. If you attempt to start the INSIGHT App, an error App Kiosk Mode, you cannot access it after you have logged in to a want to access DRC INSIGHT. Because INSIGHT runs in Single On your Chromebook, do not log in to your Google account if you

as tips, techniques, and workarounds to resolve them. This section describes detailed resolutions to common technical support issues you may encounter, as well

Question 1: I Don't Know What to Whitelist, Allow, or Unblock?

Testing Computers" on page 25): The following is a list of the items to include (for more information, see "Network Requirements for

- Allow or enable http/https protocols on ports 80/443.
- Windows 7, enter the command **netstat-a** from a command prompt to display a list of ports being used. 1 Important: To avoid potential conflicts, verify that no other device is using either port. For
- Allow connectivity on ports 80 and 443.
- Whitelist the following file types, both internally and externally:

enc exe (for updates) gif html jar jpeg json xml

- Prioritize and whitelist INSIGHT traffic on:
- Firewalls, Internet packet shapers, routers, switches, proxies
- Other network devices you use
- Whitelist the following URL to enable the Chromebook to communicate with the Device Toolkit.

dtk.drcedirect.com 50.58.190.22

Allow whitelist access for content. Try these links in a browser window to see if you have access:

Link	Displays a blank page with a label similar to
http://pa-insight-client.drcedirect.com/	insightwebdl01
https://pa-insight.drcedirect.com/ping.htm	53 systemonline
https://wbte.drcedirect.com	no label

Notes:

- When whitelisting, you may need to use *.drcedirect.com instead of pa-insight.drcedirect.com.
- without requiring authentication credentials to be passed by INSIGHT Besides whitelisting these sites, you may need to allow sites to pass through the proxy server
- software to DRC servers, or from the TSM server to DRC servers Each state uses its own URLs and IP addresses to communicate from the INSIGHT client (workstation)

State	URL	IP Address	Port/Protocol
Pennsylvania	http://pa-insight-client.drcedirect.com	50.58.190.29	80/http; 443/https
	https://pa-insight.drcedirect.com	50.58.190.30	80/http; 443/https
	https://wbte.drcedirect.com	50.58.190.53	80/http; 443/https

Question 2: How Do I Update Test Forms in a TSM?

To update your test forms, do the following:

1. Open the TSM by pasting the following URL in a browser:

http://localhost:8080/

Note: The string localhost only works in this URL if you are using a browser on the computer where the TSM is installed.

- 2 To access the TSM remotely, change localhost to the IP address or server name of the computer where the TSM is installed.
- ယ Select any optional media files (TTS, VSL) that need to be updated (if applicable).
- 4 If the status of any content changes to Out of Date, click the Update Content button.

the content to display the status Up to Date. the status of the update. It takes a while for the TSM to update. Wait for the screen to refresh and all of process. After you read the information, click OK. During the update, a progress bar displays to indicate Note: When an update starts, the Content Update page displays information regarding the update

Question 3: Can We Mass Deploy Test Software to All Student Computers?

to which you deploy. Basically, you can configure the installer using arguments when you deploy it in a non-interactive or silent mode. For technical details, see Modifying the Setup File. Yes, but the details vary depending on which technology you use for deployment and the operating system

Modifying the Setup File

using different installation settings. To modify the file, you need the ORCA installer package from the Windows SDK for Windows Installer Developers. This package is available at the following location: You can modify the DRC_INSIGHT_Setup.msi installation file to install your software on many machines

http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=3138

msi to install the Orca.exe file. After installing the Windows SDK Components for Windows Installer Developers, double-click on Orca.

To modify the setup file, do the following:

- 1. Start Orca.
- 2. Select File-Open and open the MSI installer.
- ŝ this table. Select Property-Table to open the Property table (see the figure below). Make all of your changes in

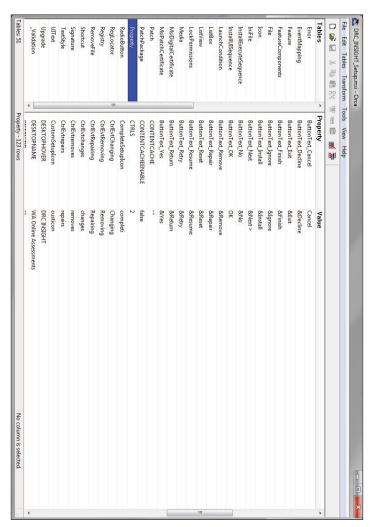


Figure: Property Table

The following are the different properties you may want to change. To make a change, double-click on the value of the property, enter your value, and click Enter.

(1) Important:

- you modify. Make sure that there are no spaces before your input—do not put spaces in front of any attribute that
- InsightClientRESTServices/ClientRESTService.svc/locations numeric code from the locations file located at the following link: https://pa-insight.drcedirect.com/ For DISTRICT_NAME, DISTRICTID, SCHOOL_NAME, and SCHOOLID, use the name and/or
- Ignore the ADMINID and ADMINNAME properties.

AUTOUPDATEFLAG

Toggles automatic updates on or off. True enables automatic updates

ENABLELCS

perform response caching Enables a TSM for response caching. If true, use LCSURL to specify the TSM server that will

LCSURL

localhost:8443/. Replace localhost with the name or IP address of the TSM response caching server. The name or IP address of the TSM response caching server. The default value is https://

LOADSIMULATIONENABLE

Specifies that load simulation testing is enabled for the testing computer. If true, include NAME, and SCHOOLID. perform load simulation tests. You also must specify DISTRICT_NAME, DISTRICTID, SCHOOL_ CONTENTCACHEENABLE set to true and CONTENTCACHE to specify the TSM server that will

DISTRICT_NAME

The district name for load simulation testing.

DISTRICTID

The district ID for load simulation testing

SCHOOL_NAME

The school name for load simulation testing

SCHOOLID

The school ID for load simulation testing.

CONTENTCACHEENABLE

will perform content caching. Enables a TSM for content caching. If true, use CONTENTCACHE to specify the TSM server that

CONTENTCACHE

the TSM content caching server. The URL and secure port of the TSM server that caches test content and performs load simulation tests. The default value is https://localhost:8443/. Replace localhost with the name or IP address of

HTTPSPROXY

start with either http:// or https://. The URL and secure port of the proxy host server. Depending on your configuration, this URL can

After you make your changes, save the file and overwrite the original DRC_INSIGHT_Setup.msi file.

Silent Install Example

The following example shows the syntax you would use to install INSIGHT silently in Windows 7.*

DRC_INSIGHT_Setup.msi /qn

Silent Uninstall Example

The following example shows the syntax you would use to uninstall INSIGHT silently in Windows 7.*

msiexec /x DRC_INSIGHT_Setup.msi /qn

*For Microsoft Windows 8, use /qb instead of /qn.

Notes

Glossary

Glossary

Accommodation

and skills in an assessment situation (see "Text-To-Speech", "Video Sign that allow students with physical or learning disabilities, or a limited English-language ability to more accurately demonstrate their knowledge Modifications or enhancements made to tests, or test environments, Language").

ContentCaching

performance (see "Response Caching"). testing computers. This content must be up to date in order for students the TSM content caching software sends its cached test items to the to test. DRC strongly recommends TSM content caching for maximum The Testing Site Manager (TSM) can cache test content. At test time

■ DRC INSIGHT Learning System

related resources, dynamic reporting, and a suite of educator tools. all content areas and grade levels by incorporating computerized testing, DRC's system to deliver assessments and related resources online for

network traffic, maintain connectivity, and handle bandwidth issues (see testing interface and the Testing Site Manager (TSM) to help manage The DRC INSIGHT Learning System consists of a secure web browser "Testing Site Manager").

■ DRC INSIGHT

test taker and to send responses to the DRC INSIGHT server, which stores on each testing device. This software communicates with the DRC The main component of the DRC INSIGHT Online Learning System, them securely. INSIGHT server to provide online tools training and test questions to the DRC INSIGHT is a secure web browser testing interface that is installed

Dynamic IP Address

An IP address that can change when the computer is restarted or rebooted based on the pool of IP addresses that are available at the time (see "Static IP Address").

Kiosk Mode

performing inappropriate testing activities, such as accessing the Internet. uses Kiosk Mode to "lock down" student access and prevent students from When DRC INSIGHT runs on a supported device and operating system, it

Latency

receive the data packets (usually because of excess network traffic). received. The longer this time is, the longer it has taken the DRC server to network also calculates the time, in milliseconds, it takes for the data to be sends data packets from the TSM to the DRC server and back. The When the TSM "pings" the IP address of the DRC server, the network

network traffic times and for analyzing the best times for testing Knowing the latency of a network is useful for helping to determine peak This rate of data transfer across a network is referred to as latency

Load Simulation Test (LST)

amount of time it will take to download tests and upload responses. For A software test used to perform load simulations to help estimate the individual testing computers, a load test simulation reports the following

- (based on configuration) The source for the content: the TSM, DRC, or the client computer
- The amount of time it took to load the test to the testing computer, on
- The time it took to submit the result to DRC
- The combined time for the load test and submit result

A device that can run INSIGHT-supported operating systems natively if it without external support, as opposed to running in an emulation. meets the minimum system requirements. Running natively means running

their suite of online testing tools. and administrators to become familiar with the online test environment and An optional, customized feature of DRC INSIGHT that allows students

response caching software buffers and stores their test responses. computers cannot communicate with the DRC INSIGHT server, the TSM The TSM can cache student test responses. During testing, if the test

software for maximum performance (see "Content Caching"). responses are lost. DRC strongly recommends the TSM response caching responses are still being stored on the TSM for transmission to DRC, so no DRC is not currently communicating with the testing computers, the test test responses to the DRC INSIGHT server every fifteen minutes. Even if When the response caching software is communicating with DRC, it sends

An IP address that is permanently assigned to a computer and does not Address"). change when the computer is restarted or rebooted (see "Dynamic IP

A software program that helps you troubleshoot issues that may occur any checks the testing device failed, and provides suggestions for success the necessary hardware and software requirements for testing, indicates prevent, or correct most errors easily. It verifies that a testing device meets automatically when you install DRC INSIGHT, runs anytime DRC when DRC INSIGHT is installed or running. The SRC is installed INSIGHT runs, and performs a series of tests you can use to diagnose,

■ Native Device

- Online ToolsTraining (OTT)
- Response Caching

- Static IP
 Address
- System
 Readiness
 Check (SRC)

Testing Site Manager (TSM)

manage your online testing environment. to provide caching and a software toolbox to help you plan, configure, and DRC's powerful, web-based application that works with DRC INSIGHT

■ Text-To-Speech (TTS)

allows a student to hear the test recorded by a computer-simulated voice An optional testing accommodation offered with DRC INSIGHT that

(see "Content Caching" and "Response Caching").

test computers and the DRC INSIGHT server. A TSM typically reduces

bandwidth to help manage and streamline communication between the software is installed on one or more strategic computers with sufficient

bandwidth traffic for schools by about 50% when downloading test content

and response caching for student test responses. The TSM caching

The TSM offers two types of caching—content caching for test content

■ Thin Client

tasks. A computer that relies on servers for information processing and other

Video Sign Language (VSL)

through an online video. allows a student to see both test instructions and content signed visually An optional testing accommodation offered with DRC INSIGHT that

Virtual Desktop

another device, across a network boundary. Typically, users access virtual desktops from another operating system, on DRC INSIGHT (other physical devices host operating systems directly). Desktops that can indirectly host some supported operating systems for

Virtual Desktop Device

DRC INSIGHT natively, or be able to run an operating system that DRC or remote desktop. The device may or may not be capable of supporting A device a student interacts with, which is actually a gateway to the virtual INSIGHT supports.

Virtual Desktop Infrastructure (VDI)

> system within a virtual machine running on a central server A computer environment in which a computer hosts a desktop operating

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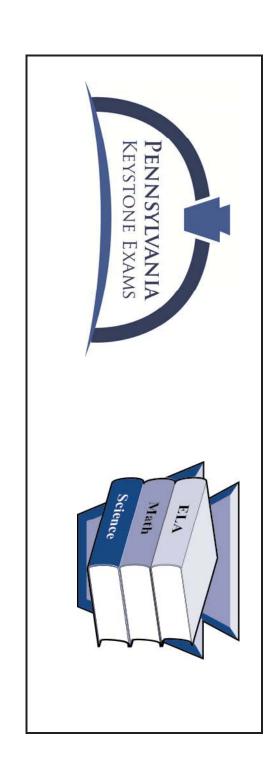
PSSA/Keystone Exams: 1-800-451-7849 CDT: 1-888-551-6935

Fax: 763-268-3008 or 763-268-3031

Website: https://pa.drcedirect.com

Revision Date: March 25, 2015





EDIRECT TEST SETUP USER GUIDE

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GENERAL INFORMATION

INTRODUCTION

follow the procedures presented. This user guide is essential to a successful online administration. All District Technology Coordinators, District Assessment Coordinators, School Assessment Coordinators, Test Administrators, and Teachers who are coordinating an online administration must read this user guide and

REFERENCE MATERIAL

The following reference materials can be found on the eDIRECT website: https://pa.drcedirect.com:

INSIGHT Technology User Guide
PA Online Assessments Technology Training PowerPoint
Handbook for Assessment Coordinators
Directions for Administration Manuals

CUSTOMER SERVICE SUPPORT

If there are any questions, please review the resources that are available at https://pa.drcedirect.com

	DRC PA CUSTOMER SERVICE TEAM
Phone	(800) 451-7849
Email	Email PAcustomerservice@datarecognitioncorp.com
Hours	Monday–Friday (exclusive of holidays) 8:00 AM–5:00 PM Eastern Standard Time

ROLES AND RESPONSIBILITIES

COMMUNICATION PLAN

discuss the testing schedule and determine which schools are participating. district's plan for administering the online assessments in schools within their district. They should review and The District Technology Coordinator and the District Assessment Coordinator should meet to review the

communication should be shared during the training of School Assessment Coordinators. online assessment. This plan should include establishing communication processes involving the District Technology Coordinator, District Assessment Coordinators, and School Assessment Coordinators. The Coordinator about the online administration should be established before schools within the district begin any A plan for efficient communication between the District Technology Coordinator and the District Assessment

student data management, while the School Assessment Coordinators focus more on the teacher and test District Assessment Coordinators to restrict the School Assessment Coordinators' access to and rights within session data management. the system. Given this model, DRC recommends that the District Assessment Coordinators be responsible for Assessment Coordinators to have many of the same responsibilities, it is flexible enough to allow for the Although the Test Setup system via eDIRECT allows for District Assessment Coordinators and School

DISTRICT TECHNOLOGY COORDINATOR RESPONSIBILITIES

The District Technology Coordinator is responsible for the following tasks:

- reviewing the Technology User Guide
- attending or viewing a DRC-led online technology training WebEx prior to testing
- reviewing the WBTE Technology Coordinator Training PowerPoint
- reviewing the Technology Readiness Checklist
- creating a communication plan with the District Assessment Coordinator to support the School Assessment Coordinators, Test Administrators, and Teachers during testing
- ensuring that computers used for the online assessments meet the minimum system requirements and are configured to support online testing
- managing their profile on eDIRECT to ensure all information is correct and up-to-date
- adding any other district or school technology personnel to eDIRECT who might require access to the software downloads

DISTRICT ASSESSMENT COORDINATOR RESPONSIBILITIES

The District Assessment Coordinator is responsible for the following tasks:

- distributing the communication plan and ensuring that all School Assessment Coordinators have the correct administration materials prior to the testing window
- working with the District Technology Coordinator(s) to ensure all appropriate schools within the district have access to the online assessment system
- becoming familiar with this user guide, the PA Online Assessment application, and the Test Setup system
- setting up and managing account permissions for the appropriate School Assessment Coordinators on
- providing training to all School Assessment Coordinators involved in test administration
- managing student data and teacher data
- managing their profile on eDIRECT to ensure all information is correct and up-to-date

SCHOOL COORDINATOR RESPONSIBILITIES

The School Assessment Coordinator is responsible for the following tasks:

- becoming familiar with this user guide, the PA Online Assessment application, and the Test Setup system
- working with the District Technology Coordinator to ensure that the online testing system is loaded on all the appropriate computers within the school
- setting up and managing eDIRECT permissions for appropriate Test Administrators and Teachers
- administration materials prior to testing providing training and ensuring that all Test Administrators and Teachers have the correct
- ensuring students have explored the Student Tutorial, have taken the Online Tools Training, and know how to use the tools within the online system—including where and how to mark their answers
- managing student data, teacher data, and test session data
- managing their profile on eDIRECT to ensure that information is correct and up-to-date
- overseeing and assisting Test Administrators and Teachers with Test Setup tasks
- helping to coordinate assessment times for the students testing within the school
- managing Student Login Tickets (Test Tickets)
- reviewing and verifying that student information is correct on the Student Login Rosters
- printing the Student Login Tickets, verifying that the student information (Name, PAsecureID, and Accommodations) on the Test Tickets is correct and making any necessary corrections
- storing Student Login Tickets in a secure location

TEST ADMINISTRATOR RESPONSIBILITIES

The Test Administrator is responsible for the following tasks:

- becoming familiar with the PA Online Assessment application and Test Setup system
- intended for testing are on the roster and verifying that student information is correct reviewing the roster contained within the Student Login Summary and making certain that all students
- notifying the School Assessment Coordinator if any student information is incorrect and needs to be
- how to use the tools within the online system—including where and how to mark their answers ensuring students have explored the Student Tutorial, have taken the Online Tools Training, and know
- distributing the correct Test Tickets to the students at the time of the test
- monitoring the testing environment during the scheduled testing time
- notifying the School Assessment Coordinator/Teacher if any students were unable to complete the assessment in the scheduled time
- scheduling extended testing time for any students unable to complete the assessment within the scheduled testing time
- coordinating with the School Assessment Coordinator to reset Test Tickets if extended testing time is
- collecting, accounting for, and returning all Test Tickets and scratch/grid paper

PA ONLINE ASSESSMENT TEST ENGINE

STUDENT TUTORIALS

tutorials have been developed for each content area and for each grade as needed. They use pictures, motion, once, but additional time should be scheduled for students to review the tutorial segments as needed Assessment system. It is recommended that students are given at least 15 minutes to go through the tutorials and sound to present visual and verbal descriptions of the properties and features of the PA Online The Student Tutorials have been created for the CDT assessments, PSSAs, and the Keystone Exams. The

Tutorials icon. This icon will be visible if the PA Online Assessment system has been downloaded. Otherwise, teachers, students, and parents. and then select the Test Tutorials tab. The Student Tutorials are available for review by administrators, the tutorials can be viewed directly on the eDIRECT website. Go to Test Setup. Click on General Information The Student Tutorials can be accessed directly from the computer desktop by double-clicking on the PA Online

determine which videos are appropriate for them to view. Once the Student Tutorials are opened, users are able to select whether they wish to view tutorials for the CDT assessment, PSSA, or the Keystone Exams. Users should then follow the menu selection on the screen to

to become familiar with the PA Online Assessment software tools. It is also recommended that the District Technology Coordinators, District Assessment Coordinators, It is strongly encouraged to have students review the tutorials in advance of their test day. Students are School Assessment Coordinators, Test Administrators, Teachers, and Proctors take time to review the tutorials allowed to repeat the tutorial as often as desired and needed. There are no restrictions on accessing these

ONLINE TOOLS TRAINING

with the features available during an actual test. The OTT is NOT designed to demonstrate complete coverage software in preparation for taking the CDT assessments, PSSAs, or the Keystone Exams. The purpose of the features and uses. of the tested content, and it is NOT scored. Rather, items have been chosen to demonstrate online assessment assessment. This allows students to experience taking a test on a computer and allows them to experiment OTT is for students to observe and try out features of the PA Online Assessment software prior to the actual The Online Tools Training (OTT) is designed to provide an introductory experience using the online assessment

assessments, PSSAs, and the Keystone Exams. The OTT has been developed for each content area and for each grade currently being assessed for the CDT

may help students with questions or show them how to use the tools on the Online Tools Training exploration to key tools and features. Practice Hints do not appear in actual assessments. Test Administrators questions. Practice Hints are provided with some test questions. The Practice Hints are a guide to focus Test Administrators should encourage students to learn to use the testing tools while answering the practice

recommended that the District Technology Coordinators, District Assessment Coordinators, School Assessment It is strongly suggested that students be given time to take the OTT prior to taking any online assessment. It is assessment software. Coordinators, Test Administrators, Teachers, and Proctors also take the OTT to become familiar with the online

ACCESS TO THE ONLINE TOOLS TRAINING

To launch the Online Tools Training, follow these steps:

- Install the PA Online Assessment software
- secure version
- public OTT version
- Double click on the DRC Insight icon on the desktop
- ω i> Select the **Online Tools Training** under CDT, PSSA, or Keystone.
- Select the **Content Area**.
- 5. 5 Select the **Subject** and **Grade**, if applicable.
- 6. Enter in the Username and Password noted on the sign-in screen.
- Click on Sign In and follow the instructions on the screen.

the username specified on the screen and use the same password shown Note for Accommodations: To access audio versions of the tools training, add the word "audio" to the end of.







TEST SETUP SYSTEM

student accommodation and demographic information, print test tickets, and monitor student testing status. The Test Setup system is used to manage student and teacher information, create test sessions, update

The Test Setup system is web-based through eDIRECT and does not require a software installation to operate It does require eDIRECT access and download permissions.

ACCESSING THE TEST SETUP SYSTEM

steps: To access the Test Setup system, follow these

- Go to the eDIRECT website at https://pa.drcedirect.com.
- Log On with your email and password.
- ₩ Ν On the left menu, select **Test Setup**.



GENERAL INFORMATION

INSTRUCTIONS

Directions on the use of the Test Setup System are available within the system. Anytime the +Instructions icon appears, the user can click on the plus sign and the instructions will expand for further reading.



GRID FUNCTIONALITY

position so the order in which the columns are displayed is changed. re-organize the data based on the selected column, or by clicking on and dragging the column to a new The information displayed in the grid can be rearranged either by clicking on a specific column header to Throughout the Test Setup System, anytime a grid is displayed, it is arranged based on default settings.

MANAGE TEACHERS

to be populated and used for Keystone Exams and PSSA. It is only used to help filter test sessions. Teacher information can be added or edited using the Test Setup system. Teacher information does not need

Helpful Hint: PPID is the seven-digit Staff ID that is collected in PIMS. If a teacher does not have a PPID, please use his or her nine-digit Social Security number without dashes.

the information in the PIMS system separately. Note: Updates made to teacher data in the Test Setup system are not reflected in PIMS. Make sure to update

SEARCH FOR TEACHERS

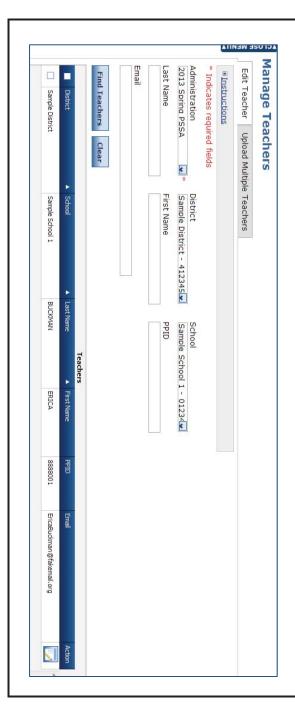
To search for teachers, follow these steps:

- Select **Test Setup→Teachers**.
- 2 1 Select the appropriate Administration.
- ω Select the **District** and/or **School**.
- 6.5. Enter any additional search criteria: Last Name, First Name, PPID, or Email.
 - Select Find Teachers
- To clear your search and start over, click on Clear.

To export search results, follow these steps:

- Search for **Teachers**
- Click on **Export to Excel** at the bottom of the page.

Note: Only the search results are exported to Excel.

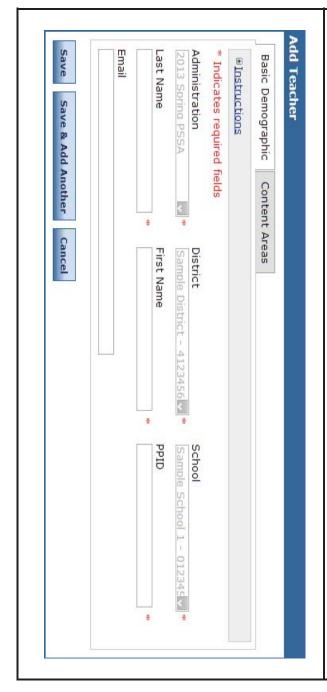


ADD TEACHERS

To add teachers, follow these steps:

- 6.543.21 Select **Test Setup**→**Teachers**.
 - Select the appropriate Administration.
 - Select **District** and/or **School**.

 - Select **Add Teacher** at the bottom of the page. Enter the teacher **Last Name**, **First Name**, **PPID**, and **Email**.
- Click Save or click Save & Add Another to continue adding new teachers.



UPLOAD MULTIPLE TEACHERS

function. A File Layout PDF and a Sample File CSV text file are available within Test Setup after Administration If several teachers need to be added, it is possible to add multiple teachers at one time by using the upload and **District** have been selected.

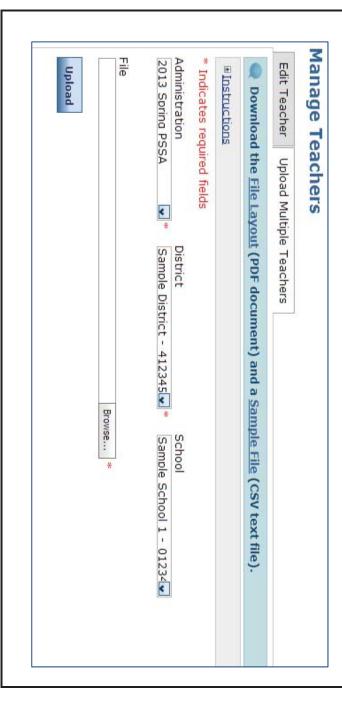
When uploading a new file, the new file updates information that was contained in the previous file uploaded. will remain in the system. If the new file is missing records that were on the previous file, those records from the previously uploaded file

value (CSV) format. File Format Verification Process: The file is then checked to ensure that it is in the correct comma-separated-

another file until this process is complete. See the File Layout PDF for specifics on what validations will be rigorous file error validation process. This process could take up to four hours. You will not be able to upload File Validation Process: If the file format passes the file format verification process, then it will go through a view the error report for the last file that was uploaded. performed on the uploaded file. Only records with errors will not be uploaded. Click on the error report to

7 upload multiple teachers, follow these steps:

- Select **Test Setup**→**Teachers**.
- 2. 1. Select the Upload Multiple Teachers tab
- ω Select the appropriate Administration.
- 4 Select the **District** and **School**.
- 5. Click **Browse**, and select the file from your computer.
 - Click Upload
- Status messages appear at the top of the page notifying the user of the status of the file being uploaded.
- 9 8 Click on teacher file to view the file that was last uploaded.
- Click on error report to view the error report for the last file that was uploaded



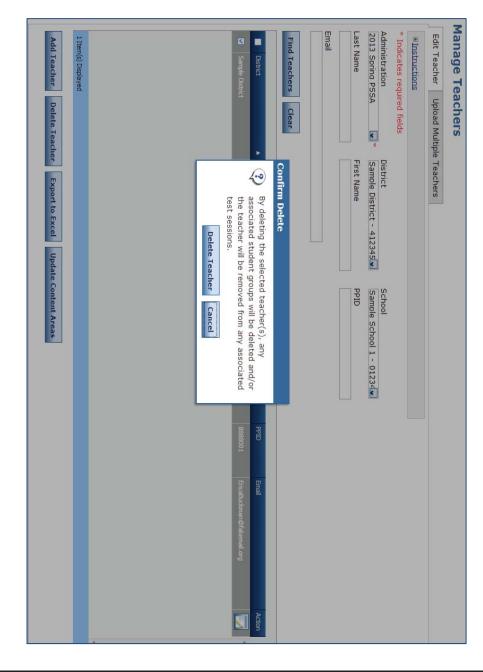
DELETE TEACHERS

removed from Test Setup only. Deleting a teacher will also delete all Test Sessions assigned to the teacher. Teachers can be removed from the Test Set Up system, if needed. When a teacher is deleted, the teacher is

still has permissions that may have been assigned. To remove permissions, go to Manage Users. Note: Deleting a teacher from test setup does not remove a teacher from an eDIRECT user role. The teacher

To delete teachers, follow these steps:

- Ë Select **Test Setup→Teachers**.
- 2 Select the appropriate Administration.
- .2 Select the **District** and/or **School**.
- for a specific teacher. Select Find Teachers, to display a list of all teachers, or enter Last Name, First Name, or PPID to search
- Check the box(es) in front of the teacher(s) you wish to remove
- 5. 5. Select the **Delete Teacher** button at the bottom of the page.
- Manage Teachers page. To confirm the delete, click Delete Teacher in the pop-up window or click Cancel to return to the



EDIT TEACHER INFORMATION

Teacher information that is missing or incorrect in the Test Setup system should be edited to reflect the correct information.

To edit teacher profiles, follow these steps:

- 7.6.5.4.3.2.1. Select **Test Setup**→**Teachers**.
 - Select the appropriate Administration.
 - Select **District** and/or **School**.
 - Perform a search to find the teacher that needs to be edited.
 - Select the View/Edit icon in the Action column to the right of the teacher being edited
 - Update all the incorrect or missing information.
- Click Save or click Cancel and return to the Manage Teachers page



MANAGE STUDENTS

Student information can be viewed, added, or edited using the Test Setup system. District Assessment Assessment Coordinators have the ability to share those permissions with School Assessment Coordinators. Coordinators have been granted the permissions to add or edit students to make necessary changes. District

PIMS UPLOAD

system. The Test Setup system is primed with student data collected during the corresponding Prior to a student being added to a Test Session, the student must be loaded to the eDIRECT the final reporting collection window. student can be added to the eDIRECT system. This student will need to be added to PIMS for the PIMS calendar. If a student moves into the district after the PIMS collection window, the Pennsylvania Information Management System (PIMS) file collection window as reflected in

DEMOGRAPHICS/ACCOMMODATIONS

- 0 Student demographic information collected during the PIMS collection window will be reflected within the Test Setup system. This demographic information will not be editable via collection window. eDIRECT. Any demographic changes will need to be updated via PIMS within the final reporting
- 0 has completed the assessment. as extended time, frequent breaks, etc., can be updated before, during, or after the student updated prior to the student being assigned to a test session. All other accommodations, such needs the online AUDIO or SIGN LANGUAGE accommodation, the student's profile must be Accommodation information is NOT currently collected in the state PIMS system. If a student

NON-ASSESSED STUDENTS

- 0 For students who are non-assessed, home-schooled, or have supplemental information via the eDIRECT system. needed, the District Assessment Coordinator is responsible for updating the student's profile
- 0 The following items are found under the Testing Code tab when editing a student profile:
- Recent Medical Emergency
- Extended absence for the entire testing window
- Parental request for exclusion from the assessment
- Court/agency placed (not foster care)
- Absent without make-up
- Home-schooled

SEARCH/VIEW STUDENTS

To search for students, follow these steps:

- Select **Test Setup**→**Students**.
- 4 2 2 4 Select the appropriate Administration.
 - Select the **District** and/or **School**.
- Area, Accommodation Type, Accommodation, Grade, Demographic, Teacher, Student Group, Content Enter any other desired search criteria: Last Name, First Name, PAsecureID, Accommodation Content Area, or Session.
- 6. 5 Select Find Students.
- To clear your search and start over, click Clear.

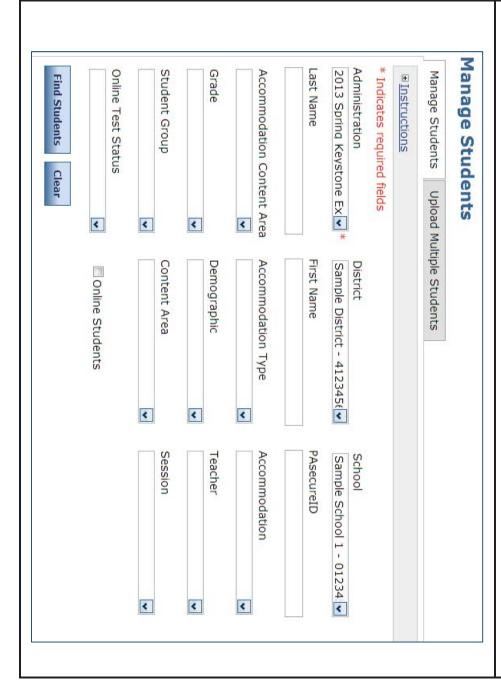
7 export search results, follow these steps:

- Search for Students.
- Click Export to Excel.

Note: Only the search results will be exported to Excel.

7 download a complete student list for a school, follow these steps:

- i, Select Students under the Test Setup tab.
- 2 Select the appropriate Administration.
- ω 4. If applicable, select the **District** and/or **School**
- Click on **Download Students** at the bottom of the page.

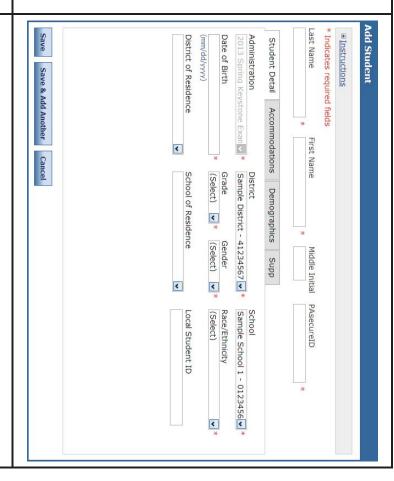


ADD STUDENTS

student to a Test Session. Students not included in the PIMS data file will need to be added to the Test Setup system prior to adding the

To add students, follow these steps:

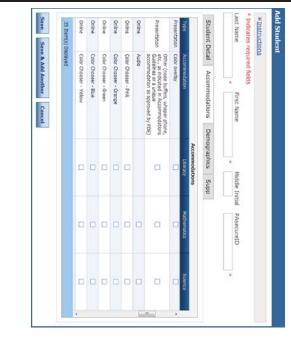
- Select Test Setup→Students.
 Select the appropriate
- Select the appropriate Administration.
- Select the **District** and/or **School**.
- 4. Select **Add Student** at the bottom of the page.
- Enter all the required information for the student being added in **Student Detail** tab.
- Click Save or click Save & Add
 Another to continue adding new students



Select the Accommodations tab to enter Presentation,
 Online, Response, and/or Timing accommodations if needed.

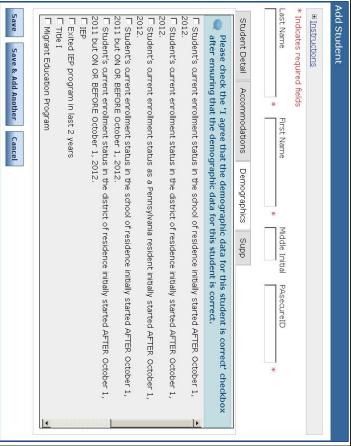
Note: If a student needs online AUDIO or SIGN
LANGUAGE, the student's profile must be updated prior to the student being assigned to a test session.

8. Click Save



 Select the Demographics tab to enter Enrollment Status, IEP, Title I, Migrant Education Program, Economically Disadvantaged, Foreign Exchange, ELL, and/or Title III.

10. Click Save.

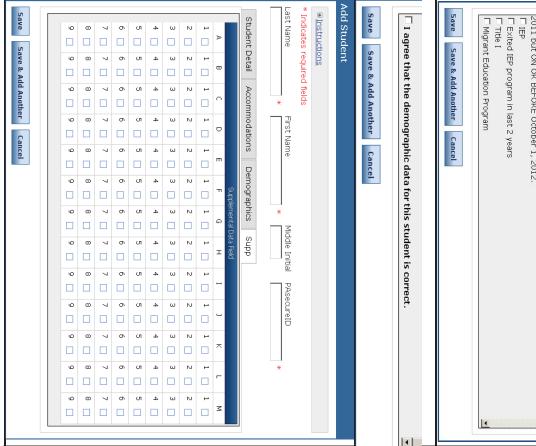


Note: You must check the "I agree that the demographic data for this student is correct." box for all students.

 Select the Supp tab to enter Supplemental Data Field if needed.

Note: The Supplemental Data Field will only be used in the event that a determination is made that the demographic information already contained in the answer books has overlooked an element that should be considered for reporting requirements.

This field will only be used if districts/schools are instructed to do so by DRC or PDE.



UPLOAD MULTIPLE STUDENTS

document readily accessible while entering student data into the CSV Sample File as it explains what the and/or **Schoo**l. Click on the hyperlinks to view or download the files. It is necessary to have the File Layout and a Sample File are available within Test Setup after you have selected the Administration and District District Assessment Coordinators have the ability to upload a file containing multiple students. A File Layout appropriate data is for each field in the file.

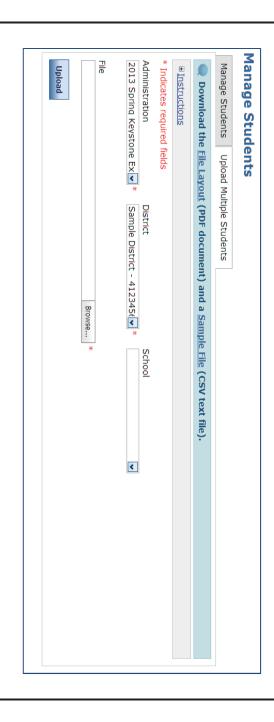
previously uploaded file will remain in the system. file uploaded. If the new file is missing records that were on the previous file, those student records from the When uploading a new file, the new file updates and amends information that was contained in the previous

correct CSV format. File Format Verification Process: The file format will then be verified by the system to ensure that it is in the

another file until this process is complete. See File Layout PDF, at the top of the Upload Multiple Students tab, rigorous file error validation process. This process could take up to four hours. You will not be able to upload File Validation Process: If the file format passes the file format verification process, it will go through a uploaded. Click on the error report to view the error report for the last file that was uploaded for specifics on what validations will be performed on the uploaded file. Only records with errors will not be

To upload multiple students, follow these steps:

- Select Test Setup→Students
- Select Upload Multiple Students tab
- 3 2 1 Select the appropriate Administration.
- 5. 5. 7. Select the **District** and/or **School**.
 - Click **Browse**, and select the file from the computer.
 - Click Upload
- Status messages appear at the top of the page notifying the user of the status of the file being uploaded.
- 9 8 Click on student file to view the file that was last uploaded.
- Click error report to view the error report for the last file that was uploaded



EDIT STUDENTS

If student information is missing from the Test Setup system or is incorrect, it may be edited, unless the student matches to PIMS.

To update student profiles, follow these steps:

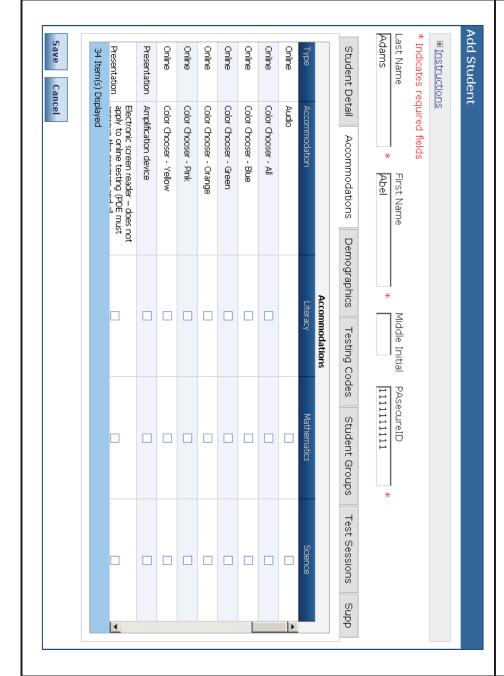
- 1. Select **Test Setup→Students**.
- 2. Select the appropriate Administration
- 3. If applicable, select the **District** and/or **School**.4. Perform a search to find the student whose da
- student is by using only their PAsecureID. If you do not know the PAsecureID, use first and last name. Perform a search to find the student whose data needs to be edited. The most useful way to search for a
- 5 edited. Click on the View/Edit icon in the Action column to the right of the student whose information is being
- 6. Update all the incorrect or missing information under the Student Detail, Accommodations, Demographics, Testing Codes, Student Groups, Test Sessions, and/or Supp tab.
- 7. Click Save or click Cancel to return to the Manage Students page.

Last Name •	First Name ▲	PAsecureID	Local Student ID	Date Of Birth	Grade ▲ Action	Acti
ADAMS	VIRGINIA	1060969386		4/20/1995	10	
ALEXANDER	PAULA	1064530567		8/26/1995	10	
ALLEN	TIMOTHY	1060559927		7/7/1995	10	
ALVAREZ	WILLIE	1071536591		2/10/1995	10	
ANDERSON	CHRISTOPHER	1059463539		4/20/1995	10	
ANDREWS	HERMAN	1069105368		6/13/1995	10	
ARMSTRONG	BRITTANY	1069378372		1/10/1995	10	
ARNOLD	ERICA	1068721286		6/16/1995	10	

UPDATE ACCOMMODATIONS FOR A SINGLE STUDENT

To update and/or change student accommodations, follow these steps:

- 8 7 6 5 4 3 2 1 Select Test Setup→Students
 - Select the appropriate Administration.
 - Select the **District** and/or **School**.
 - Perform a search to find the student.
 - Click the View/Edit icon in the Action column to the right of the student being edited.
 - Select the **Accommodations** tab.
 - The accommodation options are listed.
- Put a check in the box to select an accommodation.
- 9. Deselect the check in the box to remove an accommodation.
- Click Save to apply the accommodation or click Cancel to return to the Manage Students page



UPDATE ACCOMMODATIONS FOR MULTIPLE STUDENTS

follow these steps: accommodations for multiple students, To update and/or change student

- Test Setup→Students.
- 5.4.2.1 Select the appropriate Administration.
 - Select the **District** and/or **School**.
 - Click on Find Students.
- updated. students who need accommodations Place a check in the box to select the
- 6. the bottom of the page. Click on Update Accommodations at



S G	Pri	Pn	Q	Or	Or .	Q	Q	Or	page.	to return to the Manage Students	Offill Or Click Calice	Accommodations or Remove Accommodations. Put a check in the box for the accommodation to either assign or remove. Click Save to apply the Click Cancel
Save Cancel	Presentation	resentation	Online	Online	Online	Online	Online	Online	Online	Туре		The Acco or Remov Binstructions Update Mode O Assign Accomm
usplayed Cancel	Electronic screen reader – does not apply to online testing (PDE must approve the program and all functions)	Presentation Amplification device	Color Chooser - Yellow	Color Chooser - Pink	Color Chooser - Orange	Color Chooser - Green	Color Chooser - Blue	Color Chooser - All	Audio	Accommodation	Accomm	The Accommodations selected (checked) below can be either Assigned or Removed from the Students selected on the previous screen. Binstructions Update Mode Assign Accommodations Remove Accommodations
										Literacy	Accommodations	checked) be selected on
										Mathematics		the previous s
										Science		screen.

9.

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7.

UPDATE DEMOGRAPHICS

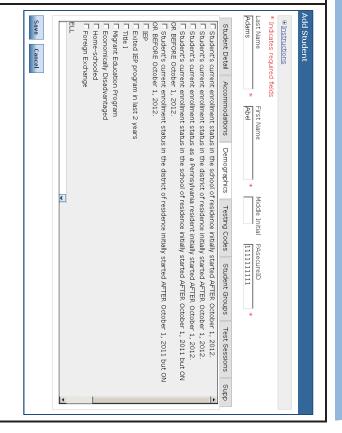
demographics, follow these steps: To update and/or change student

- 2 1. Select Test Setup→Students
- Select the appropriate Administration
- Select the **District** and/or **School**.
- 9 4 7 Perform a search to find the student.
- student being edited. Action column to the right of the Click the View/Edit icon in the
- 8.7.6 Select the **Demographics** tab.
 - The demographics options are listed
- demographic information. Put a check in the box to select

9.

Deselect the check in the box to

- 10. Click Save to apply the demographic remove demographic information.
- the Manage Students page. change or click Cancel to return to



UPDATE TESTING CODES

testing codes, follow these steps: To update and/or change student

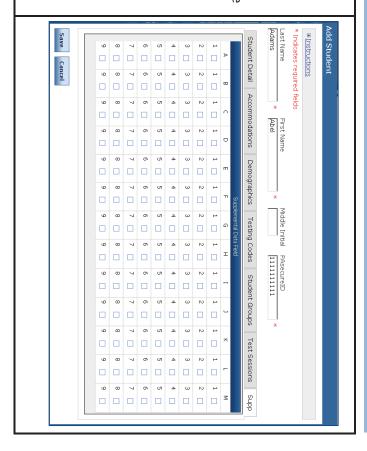
- 2.1 Select **Test Setup→Students**.
- Select the appropriate Administration.
- ω Select the **District** and/or **School**.
- 4. 5. Perform a search to find the student.
- student being edited. Action column to the right of the Click the View/Edit icon in the
- Select the **Testing Codes** tab.
- 8 .7 .6 The testing code options are listed
- testing code. Put a check in the box to select a
- 9 remove testing code. Deselect the check in the box to
- 10 Click Save to apply the testing code Manage Students page. or click **Cancel** to return to the

placed in a Test Session for that subject to a subject if the student has been Note: Testing Codes can only be applied



UPDATE SUPPLEMENTAL GRID

Note: The Supplemental Data Field will only be used in the event that a determination is made that the demographic information already contained in the answer books has overlooked an element that should be considered for reporting requirements.



VIEW TEST SESSIONS TO WHICH A STUDENT IS ASSIGNED

To view test sessions to which a student is assigned, follow these steps:

- Select Test Setup→Students.
- Select the **Administration** you would like to search.
- If applicable, select the **District** and/or **School**.
- Perform a search to find the student.
- Click the View/Edit icon in the Action column to the right of the selected student.
- Select the **Test Sessions** tab
 to view test sessions to which the
 student is assigned.
- Click Cancel to return to the Manage Students page.



TEST SESSIONS

student status. Within the Test Session link, a user assigns students to assessments, prints test login tickets, and checks

assessment per administration. Indicators will display if a student is already in a test session for an assessment. manage student test tickets and review of status information. A student can only be assigned to one created to assign students to an assessment. It is recommended that multiple sessions be created to help After all students have been loaded to eDIRECT (see page 14), test sessions can be created. Test sessions are

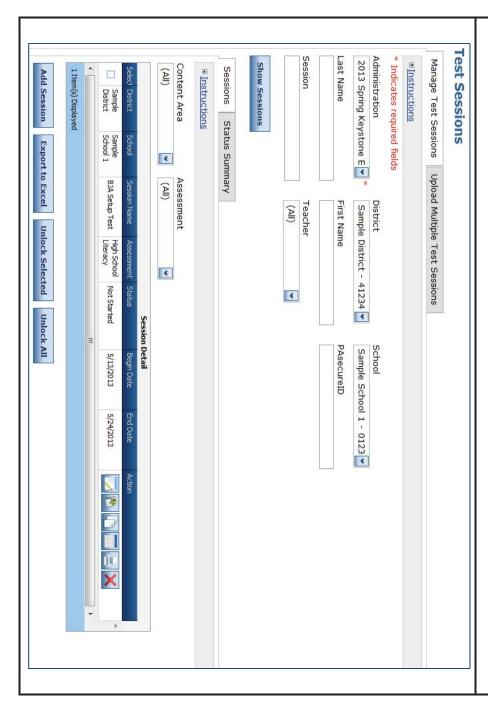
Users can print the Student Roster and Student Login Tickets (Test Ticket) from each test session. Test Ticket to sign in to the actual PA Online Assessment. Administrators will use the Rosters to confirm all of the student information is correct. Students use their Test

whether a student did not complete a section and a make-up session is needed. During the testing window, a user can view test sessions and student status. This is helpful in determining

SEARCH/VIEW TEST SESSIONS

To search for Test Sessions, follow these steps:

- Select Test Setup→Test Sessions.
- 2 Select the appropriate Administration.
- ω Select the **District** and/or **School**.
- 4.5 Enter any additional filter criteria
- Click Show Sessions.



ADD TEST SESSION

To add a Test Session, follow these steps:

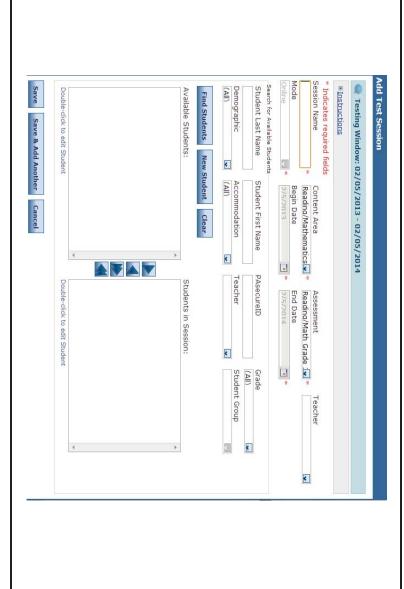
- 1. Select **Test Setup**→**Test Sessions**.
- 2. Select the appropriate Administration
- 3. Select the **District** and **School**.
- Click Add Session at the bottom of the page.
 Enter the required information: Session Nam
- Enter the required information: **Session Name, Content Area, Assessment**, and **Mode (online)**.

Test Session Name Recommendation: <Teacher Name>/<Class Name>/<Test Session Name>

Example: Sample Teacher/Algebra 1 Period 1/Session 1

- 6 Enter any additional search criteria to search for students: Last Name, First Name, PAsecureID, Grade, Demographic, Accommodation, or Teacher.
- Click Find Students.
- 8. To clear your search criteria and start again, click Clear.
- 9. Select students from the Available Students list; to multi-select, use Crtl+Mouse.
- 10. Click the Single Right Arrow icon to move the selected students from the Available Students list to the Students in Session list.
- Click Save to add the students to the session or click Cancel to return to the Test Sessions page

prior district before they can be placed in a test session in their new district. Note: Students with a pound sign (#) before their name are not available for the test session because they session in their prior district. If this is the case, they would need to be removed from that test session by their one test session per subject. If the student has recently transferred, it is likely they were placed into test have reached their maximum number of test sessions for the assessment selected. Each student can only be in



EDIT/DELETE TEST SESSIONS

Complete. begun or completed testing. The Delete icon is unavailable when a test session's status is either In Progress or Test sessions can be edited at any time but cannot be deleted if any of the students within the session have

Test Session Status:

Not Started—none of the students in the session have started testing.

In Progressone (1) or more of the students in the session have started or completed testing

Completed—all the students in the session have completed testing.

Test Ticket Status:

Not Started—student has not started to test.

In Progress—student has begun testing.

Completed—student has completed testing.

Locked—test is locked.

Note: Test Session Status does NOT relate to the start and end dates for the session.

When editing a test session, the content area or assessment can be changed ONLY when there are no students in the Students in Session list on the Add/Edit Test Sessions screen.

70 view/edit Test Sessions, follow these steps:

- Select **Test Setup→Test Sessions**.
- 2 Select the appropriate Administration
- ω Select the **District** and/or **School**.
- 4 Click Show Sessions.
- 5. Enter in any additional filter criteria: Content Area or Assessment.
- Click the View/Edit icon in the Action column next to the test session.
- See the "Add Test Session" section of this user guide for further information.

To delete test sessions, follow these steps:

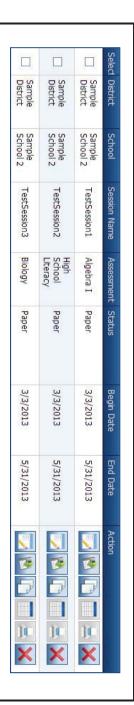
Click the **Delete** icon in the Action column to delete a test session.

Delete Available



Delete Unavailable





COPY A TEST SESSION

students. The Copy a Test Session functionality allows users to create multiple test sessions for the same group of

To copy a Test Session, follow these steps:

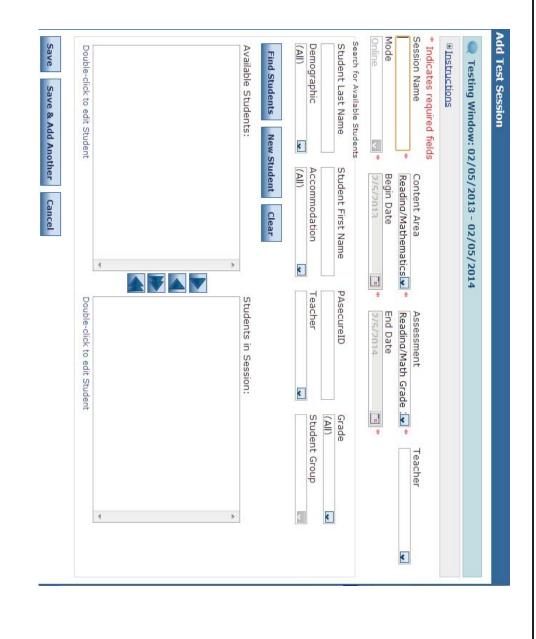
- 4 3 2 1 Select **Test Setup→Test Sessions**.
 - Select the appropriate Administration.
 - If applicable, select the **District** and/or **School**.
- Select Show Sessions.
- Click Copy Session icon in the Action column next to the test session.
- Enter a Test Session Name in the Session Name field.
- 5. Adjust Content Area and Assessment, as necessary.
- 9. Click Save.

œ

Click the double-arrow icon

to move over all students.

10. To cancel and return to Test Sessions page, click Cancel.

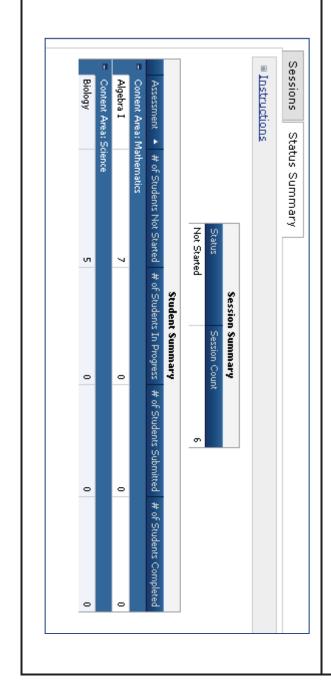


TEST SESSION SUMMARY

the schools within their district collectively or one school at a time. School users can view summary that is occurring within their district, school, or class. District users can view summary information for either all The Test Session Summary provides the user the ability to view summary information about any of the testing information for their school ONLY.

To view a Test Session summary, follow these steps:

- Select **Test Setup→Test Sessions**.
- 3 2 1 Select the appropriate Administration.
- If applicable, select the **District** and/or **School**.
- 4.5 Click Show Sessions.
- Select the Status Summary tab



STUDENT LOGIN TICKETS

secure materials and must be treated appropriately. testing software. An individual Test Ticket is required to use the online testing system. These Test Tickets are The Student Login Ticket (Test Ticket) contains unique login credentials used by the student to access the

accommodation information will appear on the Test Ticket. assessment, the username (student's PAsecureID), the password, the form number, and if the student is using the AUDIO, SIGN LANGUAGE, COLOR CHOOSER, and/or CONTRASTING TEXT accommodations. No other The Student Login Ticket (Test Ticket) always indicates the name of the administration, the name of the

STUDENT LOGIN ROSTER

Administration Name: 2014 Spring PSSA

Test Session Name: TD Production Testing Reading/Math Grade 8

Content Area: Reading/Math

Assessment Name: Reading/Math Grade 8
Test Session Window: 2/10/2014 to 5/9/2014

Form	Form Student Name	PAsecureID	Local Student ID	Username	Password	Password Accommodations
01	DONALD ANDERSON	4280925143		4280925143	DASH9834	AU
02	AUDREY BAHE	1364833603		1364833603	THEM6098	CC
01	DOUGLAS BAILEY	2984711378	333	2984711378	THAT7106	CTC
03	RODNEY BARNES	9146657363		9146657363	CLIP6817	

2014 Spring PSSA

DONALD ANDERSON

Reading/Math Grade 8

Username: 4280925143

Password: DASH9834

Form: 01

Accommodations: AU

VIEW/PRINT TEST SESSION TICKETS

To view/print Test Session Tickets, follow these steps:

- 2. Select Test Setup > Test Sessions
- Select the appropriate Administration
- ω If applicable, select the **District** and/or **School**.
- 4.5 Click Show Sessions.
- Enter in any additional criteria: Content Area or Assessment.
- 6. Click on the Edit/Print Ticket Status icon in the Action column next to the test session.
- Either select the Test Tickets by checking the box next to the applicable students and clicking Print **Selected**, or click **Print All** to print all the tickets for the test session.
- ∞ and the Test Tickets. A PDF document opens containing the Test Ticket instructions, a roster of student tickets being printed,
- 9. Print the PDF and separate the tickets for distribution to students at testing time
- 10. To return to the Test Sessions page, click Close

Quick Print All Tickets in a Test Session:

Click the **Print All Tickets** icon in the Action column next to the test session.

Log In

If students are having trouble logging in:

- make sure they are selecting the correct test,
- make sure they did not select the Online Tools Training
- make sure the first four letters are capitalized, and
- make sure when using the number key pad that the Caps Lock is not on.

UNLOCKING OF TEST TICKETS

open a session if the student was locked out prior to completing that session (e.g., school lost internet connectivity or the student went home ill). The student will be able to log back into the session using the same test ticket. The Distict Assessment Coordinator has access to unlock a test ticket. This permission allows the DAC to re-

The DAC is required to document all unlocked tickets. A Daily Student Reset Report will be generated to link in eDIRECT. provide a tool for districts and PDE to monitor unlocked tickets. The report is found under the Status Report

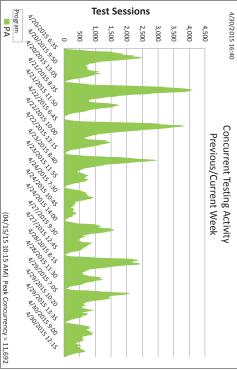
STUDENT WITHDRAWS

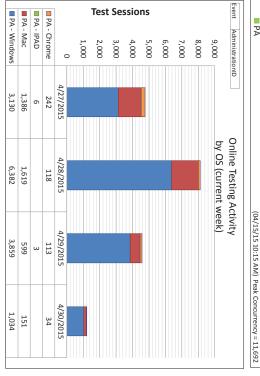
If a student starts a module (Keystone) or section (PSSA) of an online assessment and withdraws from school before completing the module/section, contact DRC for assistance.

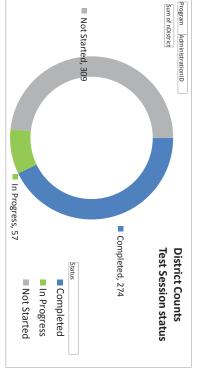
eDIRECT Test Setup User Guide

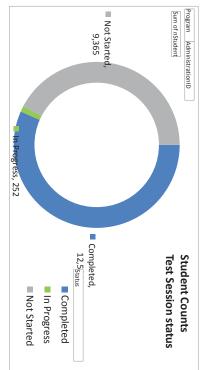


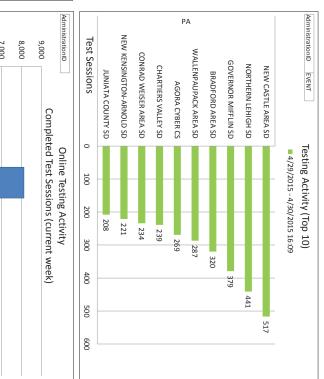
Program Dashboard

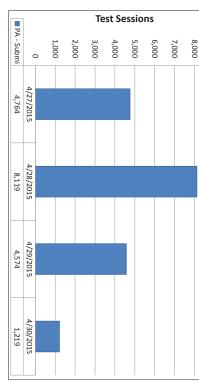


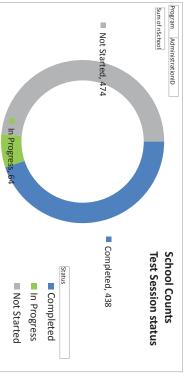


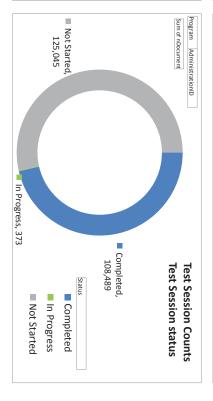














Program Dashboard

4/30/2015 4:40 PM

Program	PA									
			Status Va Completed	Values	In Progress		Not Started		Total Student(count)	Total Student %
AdministrationID Test	Test	Level	Student(count)	Student%	Student(count)	Student %	Student(count)	Student %		
550438	8 ELA	80	3,900	73.39%	26	0.49%	1,388	26.12%	5,314	
		03	621	33.46%	18	0.97%	1,217	65.57%	1,856	
		04	725	38.96%	28	1.50%	1,108	59.54%	1,861	
		05	1,033	44.39%	20	0.86%	1,274	54.75%	2,327	
		90	1,529	54.51%	27	0.96%	1,249	44.53%	2,805	
		07	2,370	51.63%	24	0.52%	2,196	47.84%	4,590	
	ELA Total		10,178	54.27%	143	0.76%	8,432	44.96%	18,753	
	MATH	08	3,639	68.75%	17	0.32%	1,637	30.93%	5,293	
		03	784	41.79%	13	0.69%	1,079	57.52%	1,876	
		04	876	53.22%	7	0.43%	763	46.35%	1,646	
		05	1,217	53.10%	13	0.57%	1,062	46.34%	2,292	
		90	1,670	57.89%	12	0.42%	1,203	41.70%	2,885	
		07	2,426	66.52%	10	0.27%	1,211	33.21%	3,647	
	MATH Total	_	10,612	60.16%	72	0.41%	6,955	39.43%	17,639	
	SCIENCE 08	80	3,903	64.17%	18	0.30%	2,161	35.53%	6,082	
		04	1,593	62.23%	33	1.29%	934	36.48%	2,560	
	SCIENCE Total	tal	5,496	63.60%	51	0.59%	3,095	35.81%	8,642	
550435	5 LITERACY HS	SH	215	0.13%	53	0.03%	170,457	99.84%	170,725	
	LITERACY Total	otal	215	0.13%	53	0.03%	170,457	99.84%	170,725	
	MATH	A1	82	0.04%	27	0.01%	220,857	99.95%	220,966	
	MATH Total	_	82	0.04%	27	0.01%	220,857	99.95%	220,966	
	SCIENCE BIO	ВЮ	124	0.07%	154	0.08%	185,174	99.85%	185,452	
	SCIENCE Total	ta	124	0.07%	154	0.08%	185,174	99.85%	185,452	



Program Dashboard

4/30/2015 4:40 PM

			Status 1	Values						
			Completed		In Progress		Not Started		Total Test Session (count)	Total Test Session (%)
AdministrationID Test	「est	Level	Test Session (count)	Test Session (%)	Test Session (count)	Test Session (%)	Test Session (count)	Test Session (%)		
550438	Α	80	19,381	63.03%	31	0.10%	11,338	36.87%	30,750	100.00%
		03	3,057	22.48%	26	0.19%	10,517	77.33%	13,600	100.00%
		04	3,571	30.17%	34	0.29%	8,230	69.54%	11,835	100.00%
		05	5,107	35.27%	26	0.18%	9,346	64.55%	14,479	100.00%
		06	7,547	44.77%	43	0.26%	9,267	54.97%	16,857	100.00%
		07	11,766	44.72%	34	0.13%	14,512	55.15%	26,312	100.00%
	ELA Total		50,429	44.30%	194	0.17%	63,210	55.53%	113,833	100.00%
	MATH	08	14.355	59.20%	25	0.10%	9.868	40.70%	24.248	100.00%
		03	3,088	27.35%	21	0.19%	8,181	72.46%	11,290	100.00%
		04	3,472	35.06%	17	0.17%	6,415	64.77%	9,904	100.00%
		05	4,817	43.66%	19	0.17%	6,196	56.16%	11,032	100.00%
		06	6,592	47.74%	17	0.12%	7,199	52.14%	13,808	100.00%
		07	9,587	55.66%	19	0.11%	7,619	44.23%	17,225	100.00%
2	MATH Total		41,911	47.89%	118	0.13%	45,478	51.97%	87,507	100.00%
	SCIENCE 08	08	11,482	50.66%	22	0.10%	11,161	49.24%	22,665	100.00%
		04	4,667	47.13%	39	0.39%	5,196	52.47%	9,902	100.00%
S	SCIENCE Total	tal	16,149	49.59%	61	0.19%	16,357	50.23%	32,567	100.00%
550438 Total			108,489	46.38%	373	0.16%	125,045	53.46%	233,907	100.00%
550435	LITERACY HS	SH	532	0.26%	97	0.05%	203,186	99.69%	203,815	100.00%
	LITERACY Total	otal	532	0.26%	97	0.05%	203,186	99.69%	203,815	100.00%
	MATH	A1	185	0.07%	53	0.02%	256,132	99.91%	256,370	100.00%
2	MATH Total		185	0.07%	53	0.02%	256,132	99.91%	256,370	100.00%
	SCIENCE BIO	ВІО	244	0.11%	295	0.13%	227,030	99.76%	227,569	100.00%
S	SCIENCE Total	tal	244	0.11%	295	0.13%	227,030	99.76%	227,569	100.00%