

Social Studies

Grade 5



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Using the CRCT Study Guide

This Study Guide focuses on the knowledge and skills that are tested on the Georgia Criterion-Referenced Competency Tests (CRCT). It is designed for teachers to use with their students and for parents to use with their children. Go to **www.gadoe.org**/ to find further information about and support for the CRCT.



Use the following section of this guide, *About the CRCT*, for an overview of the CRCT and for test-taking strategies to review with your students.

 The content tested on the CRCT is based on the Georgia Performance Standards, which describe what all students should know, understand, and be able to do.



The chapters of this guide are organized by subject. In each chapter you can explore the skills needed to succeed in a specific, tested domain (grouping of similar content standards). The subject chapters include a snapshot of each domain, instructional **Activities** that address covered skills, and a **Practice Quiz** with annotated **Solutions** to help assess student progress.

Overview of the CRCT

What is the CRCT?

The CRCT is a series of state-mandated achievement tests for students in Grades 1 through 8. In Grades 3 through 8, the subject areas of reading, English/language arts, mathematics, science, and social studies are covered.

What does the CRCT measure?

The CRCT measures how well students have learned the knowledge and skills covered by the state curriculum for their grade level. A new statewide curriculum, known as the Georgia Performance Standards (GPS), sets academic standards and expectations for all students in Georgia's public schools. The CRCT corresponds to the new standards.

The tests accomplish the following:

- Ensure that students are learning
- Provide data to teachers, schools, and school districts so they can make better instructional decisions
- Measure accountability, including Adequate Yearly
 Progress (AYP) as measured by the federal No Child Left Behind Act

CRCT results measure the academic achievement of students, classes, schools, school systems, and the state. This information can be used to identify individual student strengths and weaknesses or, more generally, to measure the quality of education throughout Georgia.

How are CRCT questions scored?

The CRCT currently uses only selected-response (multiple-choice) questions. There are four choices for each question, labeled A, B, C, and D.

Students are not compared to each other. Each is measured on his or her achievement in meeting the standards. Scores are reported according to three performance levels: Does Not Meet the Standard, Meets the Standard, and Exceeds the Standard. For more information, go to the website **www.gadoe.org/ci_testing.aspx?PageReq=CI_TESTING_CRCT** and click the link for "2008 CRCT Interpretive Guide." ------

Since the spring of 2006, performance on the reading portion of the CRCT has been linked to the Lexile scale. Visit **www.gadoe.org/lexile.aspx** for more information on this national reading measure.

Preparing for the CRCT

Test-Taking Strategies

Weeks Before the Test	Set academic goals with students for the upcoming weeks and months (short and long term). Write down and post students' goals where they can be seen at least once a day.
	Help students gather study materials ahead of time.
	Set up a place to work that is free of distractions.
	Build in time to review what was learned in the last study session.
	Divide assignments into manageable chunks. Studying for a long time non-stop is not productive!
	Model and have students mark the main idea of each paragraph with a pencil as they read. This will help them focus on what they are reading.
	Have students ask questions that arise while they are studying and encourage them to find the answers.

At the end of each study session, review what they have learned.

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Day Before the Test	Remind students to get a good night's rest.
	Remind students that they can talk to a teacher or parent if they are feeling nervous about the test.
	Assure students that this test is only one measure of their knowledge.
During the Test	Remind students of the following strategies to use during the test:
	Relax by taking slow, deep breaths.
	Read the directions carefully. Make sure you understand what you need to do. If you are not sure, ask the teacher.
	Read each question carefully.
	When you use scratch paper, make sure that you copy the problem correctly from the test onto your paper.
	You can underline and make marks on your test to help you while you work, but the only answers that will be scored are those in the correct locations on your answer sheet.
	Fill in the corresponding circle fully when you choose your answer. Erase any marks outside of the circle.
	Use your time wisely. Leave a question blank if you are unsure of the answer, then return to it at the end.
	Don't spend too much time on one question.
	Be sure to answer all of the questions.
	Review your answers when you have finished the test.
	Try to stay calm during the test. This is a chance for you to show what you know. Do the best you can!

Related Links

Below are links to important resources that contain information related to the CRCT.

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Georgia Performance Standards: www.georgiastandards.org/

CRCT Content Descriptions: www.gadoe.org/ci_testing.aspx?PageReq=CI_TESTING_CRCT

GPS Frameworks: www.georgiastandards.org/

Lexile Framework for Reading: www.gadoe.org/lexile.aspx

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Best practices in education indicate that teachers should first model new skills for students. Next, teachers should provide opportunities for guided practice. Only then should teachers expect students to successfully complete an activity independently.

The activities in this guide are no exception. They are designed to be used by teachers and parents to help students with the skills on the Georgia CRCT.

Since different students have different strengths and needs, the activities in this study guide can be scaffolded for students who need more support, extended to challenge advanced students, or presented as is (with appropriate modeling) for grade-level students.

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Chapter 1

Reading

Students in Grade 5 expand and deepen the concepts, skills, and strategies learned in earlier grades. Grade 5 students read and comprehend texts from a variety of genres (fiction, nonfiction, poetry, and drama) and subject areas (math, science, social studies, and English/language arts), and they make new connections as they encounter new ideas and begin to study subjects in more formal ways.

The Reading activities focus on some of the concepts that are assessed on the Grade 5 CRCT Reading domains. These domains are as follows:

1 Reading Skills and Vocabulary Acquisition



2 Literary Comprehension





Activities



Reading Skills and Vocabulary Acquisition

Georgia Performance Standard ELA5R3

Within the Reading Skills and Vocabulary Acquisition domain, students learn a variety of skills to read and interpret difficult text. Students will determine the meaning of unfamiliar words by using context clues and applying their knowledge of common roots, prefixes, and suffixes. Students will also identify and understand words with multiple meanings and apply their knowledge of antonyms, synonyms, and homophones.

The following activities develop skills in this domain:

To reinforce students' knowledge of words with multiple meanings, hold a Word Auction. Write words that have two or more meanings on index cards. (See the table below.) Hold one word up at a time in front of students. Working in small groups or pairs, students will race against each other to think of as many different meanings of the word that they can. They will write a different sentence for each meaning of the word, and the student who comes up with the most meanings first will get the sale. If the word on the card is *run*, act as the auctioneer and call out: *Do we have one sentence for the word run? Going once, going twice...one sentence....* Students who have at least one sentence should raise their hand. If a lot of hands go up, continue calling out, *Do we have two sentences for the word run? Do we have three sentences?* etc., until the highest bid is reached. Do not declare, *Sold!* until students read their sentences to prove they have used the different meanings of the word correctly.

account	cut	mean	rally	sink
average	dash	might	reason	skip
bank	deck	mind	record	smell
bark	estimate	nail	reflect	snap
bat	face	order	represent	sound
bear	fast	paint	ring	stick
bend	flip	pen	rock	stock
bowl	float	pet	roll	table
box	group	plane	rose	tape
can	judge	plant	row	tip
change	jump	play	run	track
charter	kind	profit	season	trick
check	lap	promise	serve	trip
color	light	race	shell	watch
crop	look	raise	ship	wind



To familiarize students with dictionary entries, play Match My Word. Write advanced vocabulary words on individual index cards. Then write or paste the printed definitions on separate index cards. Scramble the cards and pass them out. Students will walk around the room and engage each other in conversation as they try to find the match for their word or definition. Students with definition cards might say, My word can be a verb or noun and can mean _____, ____, or _____. If alternate word choices are provided in their definitions, they might also say, Another way to say my word is ______. I think it means ______. Once students find their partners they should sit down together and create a sentence with their word. At the end of the sentences they should indicate which part of speech they used. For example, if their word is estimate and they write the sentence, The woman will estimate the charges, they should specify that they used estimate as a verb.

To develop students' understanding of common Greek and Latin roots, create tree diagrams. Present students with a list of Greek and Latin root words and their meanings (see tables below). To show students how to start a tree diagram, draw the trunk of a tree and write one of the root words at the bottom. Draw branches that lead away from the trunk. On each branch write a different word that shares the root word. If the root word is *port*, which means *to carry*, the tree branches would be lined with words such as *import*, *export*, *portable*, *transport*, *portal*, and *porter*. Students should choose a root word and create their own tree diagram posters. They can use the Internet or dictionaries to search for words that contain specific roots. As students read the words' definitions, they will see how each root influences the meanings of the words that contain it.

		Greek Roots		
aer: air	<i>cosmo:</i> universe	<i>hyder:</i> water	<i>nym:</i> name	sphere: ball
<i>agog:</i> leader	<i>cycl:</i> wheel	<i>hyper:</i> over, beyond	phe/phem: to speak	<i>st/sta/stat:</i> to stand
arch: ruler	<i>derm:</i> skin	<i>hypo:</i> below, beneath	phil: love	<i>techn:</i> art, skill
aster/astr: star	<i>eco:</i> house	<i>logo:</i> word, reason	<i>phon:</i> sound	tele: far
auto: self	gram: letter	<i>meter/metr:</i> measure	<i>photo/phos:</i> light	therm: heat
<i>bio:</i> life	<i>gram:</i> thing written	<i>micro:</i> small	<i>pod/pus:</i> feet	<i>trac/tract:</i> to pull
chron: time	graph: writing	<i>mono:</i> one	<i>scope:</i> viewing instrument	<i>zoo:</i> animal

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duct: to lead	jus/jud/jur: law	<i>rupt:</i> to break	terr: land
			terr. tanu
<i>fac:</i> to do, to make	<i>lum/lus/luc:</i> light	scope: see	<i>vert/vers:</i> to turn
<i>flec/flex:</i> to bend	<i>man:</i> hand	<i>scrib/script:</i> to write	<i>vict/vinc:</i> conquer
form: shape	mar/mer: sea	<i>sect/sec:</i> cut	<i>vid/vis:</i> to see
fract: to break	<i>mini:</i> small	<i>spect:</i> to look	<i>viv/vit:</i> live
geo: earth	<i>mort/mors:</i> death	<i>spir:</i> to breathe	<i>voc:</i> voice, to call
<i>ject:</i> throw	ped: foot	<i>st/sta/stat:</i> to stand	<i>volv:</i> roll
jud: judge	port: to carry	<i>struct:</i> to build	<i>vor:</i> eat
junct: to join	quer/ques/ quis: seek	<i>tang/tact:</i> to touch	<i>zo:</i> animal
	make flec/flex: to bend form: shape fract: to break geo: earth ject: throw jud: judge	makelightflec/flex: to bendman: hand bendform: shapemar/mer: seafract: to breakmini: smallgeo: earthmort/mors: deathject: throwped: footjud: judgeport: to carryjunct: to joinquer/ques/	makelightflec/flex: to bendman: hand scrib/script: to writeform: shapemar/mer: seaform: shapemar/mer: seafract: to breakmini: smallgeo: earthmort/mors: deathject: throwped: footjud: judgeport: to carryjunct: to joinquer/ques/tang/tact: to

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To help students determine the meaning of unfamiliar words using context clues, provide them with sentences that contain either direct definitions or contrasts for unknown words. Direct definitions are often signaled by or, like in the sentence: Chaps, or protective leg coverings, are worn by cowboys. Contrasts can imply an unfamiliar word's meaning, as in the sentence, The population of jaguars is thriving, while the population of macaws is declining. By contrasting the two clauses of this sentence, students can figure out that thriving means the opposite of declining (i.e., thriving means growing or increasing). Students should read the sentences provided and write definitions for the unknown words. They can double-check their definitions with dictionary definitions to see how well the context clues helped them uncover the meaning of the unknown words.



Activities



2 Literary Comprehension

Georgia Performance Standard ELA5R1

Within the Literary Comprehension domain, Grade 5 students learn to identify and analyze the setting, characters, plot, and conflict of literary works such as short stories, dramas, folktales, poetry, fables, and descriptive narratives. They should be able to interpret the author's use of dialogue and description, and understand that theme refers to the implied or stated message about life and the world. Students in Grade 5 should also be able to analyze and understand imagery, rhythm, flow, and figurative language, such as simile (comparison of one thing to another using *like* or as), metaphor (comparison using *is*), hyperbole (exaggeration), idiom (expression particular to a given language), and personification (description of an inanimate object as animate). When reading poetry, Grade 5 students should evaluate line length and the use of capital letters, stanzas, and refrains. They should also analyze the effects of sound devices such as onomatopoeia (words like *Bang!* that are pronounced like the sounds they describe) and alliteration (phrases like *lively leaping lizards* in which each word shares the same beginning sound). Finally, Grade 5 students will analyze how a work of fiction fits within its historical and cultural context.

The following activities develop skills in this domain:

To help students identify and analyze literary elements, challenge them to fill in empty story maps. (See example on the next page.) Create a story map template that includes spaces for students to name and describe the characters, identify the setting, summarize the plot, and list the major conflicts that take place within a fictional story. Students can reread or skim over the text as they work to fill in their maps. They should mark the names of the main characters and describe the setting by identifying both time and place of the story. They should also label the conflicts according to the following categories: character vs. character, character vs. self, character vs. nature, or character vs. society. Once students have completed maps on more than one story, they should use them to compare texts and analyze the similarities and differences among characters, settings, plots, and conflicts. In addition, students should use the maps to practice asking and answering questions about characters that begin with the word *why*. For example, students could discuss why a character makes certain statements or takes certain actions.



Title:	Conflicts (Number each conflict and label type:	Plot Summary
Author:	character vs. character, character vs. self, character vs. nature, or	
Setting	character vs. society.)	
Where:		
When:		
Characters:		
(Star the main character)		

- To familiarize students with different types of figurative language, provide students with examples that they can categorize and explain. Prepare for the activity by creating four boxes or bins, each labeled either *personification*, *simile, metaphor, hyperbole,* or *idiom*. Write examples of each type of figurative language on separate strips of paper and pass them out to students. Call on students to read their sentences, identify the types of figurative language they contain, and explain what the sentences mean. A student who receives the sentence *Flowers danced in the breeze* would identify it as an example of *personification* and explain, *The author means that the flowers moved around in the breeze*. Students will place their sentences in the appropriate box or bin to start a class collection. As students read literary texts, they should look for examples of figurative language that they can write down and add to the bins. Students should use the class collection to help them add figurative language to their own writing.
- To develop students' understanding of theme, read a literary text and create common thread posters. Explain that the themes of a literary text are ideas the author expresses about life, the world, and human nature. Examples of themes are hard work pays off and jealousy can ruin a relationship. After reading a literary work, students should think of the themes the author communicates. List students' ideas on the board so they can choose one to investigate. Then, give each student a piece of yarn and a piece of construction paper. Students should glue their yarn toward the tops of their

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posters, leaving enough room to write the themes they want to investigate above it. Students will reread texts to look for events or short passages in the text that support the themes they have chosen. Students should draw lines coming down from the yarn on their poster and list evidence from the text that support the identified themes. This activity will help students see the thematic threads that are woven throughout literary texts.

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 To build students' appreciation for the effects of sound in poetry, review onomatopoeia, rhyme, and alliteration. With students, read poems that contain these sound devices. Students should rewrite the poems by removing all the sound devices then compare the two versions of the poems and discuss how the sound effects contribute to the original poem's meaning (e.g., emphasize important ideas, create vivid imagery, etc.).



Activities



Information and Media Literacy

Georgia Performance Standards ELA5R1 and ELA5LSV2

Within the Information and Media Literacy domain. Grade 5 students learn the skills necessary to comprehend and analyze information from various texts such as informational essays, non-fiction articles, subject-area texts, biographies, book and film reviews, diary entries, letters, advertisements, web pages, encyclopedias, and other reference materials. They also learn to understand and evaluate workplace, consumer, and media reading materials. Students should understand and apply their knowledge of textual features such as paragraphs, topic sentences, concluding sentences, and glossaries. Using their knowledge of organizational structures, such as classification schemes, cause and effect, chronological, and logical order, they should determine the main idea and supporting details of a text. They should make perceptive and well-developed connections to draw conclusions and make predictions. In addition, students should identify and use common graphic features, such as charts, maps, diagrams, captions, and illustrations. They should understand how media plays a part in dispensing information and in forming public opinion, as well as providing entertainment.

The following activities develop skills in this domain:

- To help students understand the purpose and value of graphic features (charts, maps, diagrams, captions, and illustrations), provide students with short, descriptive or explanatory texts from which all graphic features have been removed. (Sample texts are available online and in many academic textbooks.) Students should read the texts and create graphic features that clarify or extend the meanings of the texts. For challenging texts, give students specific guidelines, such as, *Create a line graph showing the population growth of Georgia from the year 2000 to 2005*. In order to create the graphic features, students must read the texts carefully.
- To show students how authors can influence readers' opinions, provide a forum for students to write and present reviews of books, movies, or articles. A student review should begin with an introductory paragraph that includes the title, author, or director, and genre of the book, movie, or article. Next, the review should provide a brief summary of the story or subject matter. When relevant, students should also describe the main characters, their conflicts, and major events. The review should end with a recommendation, such as to read (or not read) the book. Students should support their recommendations by explaining the positive and negative aspects of the material. Students should specify what types of readers and audiences would be likely to enjoy the book, movie, or article. Finally, students should present their reviews and discuss whether a review they have read altered their opinions. They should also make predictions about what other books, movies, or articles that they would likely enjoy.

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To increase students' awareness of author's purpose in media, give students examples of various media texts, such as newspapers, magazines, advertisements, television shows, and Internet articles. Students should then analyze the examples to identify the target audience and author's purpose for each. Secondly, students should select a writing topic (such as a movie review or a persuasive essay) and decide what type of media would be most appropriate for carrying the message. Students' plans should include the following components: identification of the media they chose and their reasons for choosing it, the audience their project would target, and a brief description of what they would like to write. Finally, students should write, revise, and—if appropriate—develop, record, or videotape the piece that they have written.



Practice Quiz

Genre: Nonfiction

Read the passage below and answer the questions that follow.

The Really Real Story of Celia Spencer

Reviewed by: Janice Moy

If you're in the mood for an adventure, go see the new movie *The Really Real Story of Celia Spencer.* It tells the story of Celia Spencer, a ten-year old with an amazing life. Her parents are circus performers. For the first ten years of her life, she lives with the circus, traveling all across Australia, Europe, and America. When the circus goes out of business, Celia's parents decide it is time to settle down. The movie takes viewers along as Celia gets used to living in one place instead of traveling the globe. Celia makes new friends and has plenty of adventures. She also learns a lot along the way. If you're in the mood to laugh, go see this movie.

The Really Real Story of Celia Spencer gives viewers a look at a life that most people do not know much about: the life of a circus performer. It was very interesting to learn about the lives of the performers. They get into trouble, have fun, and learn new tricks. Celia even gets to teach some dogs tricks to perform in the ring. Although it was one of the most fascinating aspects of the film, the movie only showed the lives of the circus performers at the beginning. I think it would have been more interesting if the movie spent more time showing what circus life is like.

When the circus goes out of business and Celia's parents decide to settle down, the story becomes a little sad. Celia is not used to living in one place, and it is hard for her. Then Celia meets Charlie, a ten-year old girl in her neighborhood. They become best friends. They visit the zoo, hang out listening to opera music, and even come up with ideas for making girls' clothes that look like circus costumes. They get in a lot of trouble during the movie, but they find a way of getting out of it without hurting themselves or anyone else. They are always happy with who they are, even when they do not fit in with the rest of the crowd.

Fans of actress Sarah Woods, who plays Celia, will love this movie. Woods does a great job as Celia. She makes the character very believable. Lisa Manning, who plays Charlie, shows off her talents as an actress, too. All of the actors in the movie do a great job.

Overall, this was a funny and entertaining movie that kids ages 8–14 will really enjoy. Certain parts of the movie were a little slow, but there were enough funny moments to make up for it. If you want to be entertained, go see this movie!



1 Why did the author MOST LIKELY include the final paragraph?

- A to introduce the plot of the movie
- B to describe her favorite part of the movie
- C to summarize her thoughts about the movie
- D to explain the roles each actor played in the movie

2 Which of these BEST describes the main idea of the passage?

- A This movie would not be interesting to adults.
- B Some movies can be funny even if they are slow.
- C Action and adventure movies are not for everyone.
- D People who like to be entertained should go see this movie.

3 What is MOST LIKELY the reason that Celia and Charlie become such good friends?

- A They are shy around other people.
- B They are used to living in one place.
- C They are adjusting to life outside the circus.
- D They are a little different from most other kids.

4 Which of these movies would the author MOST LIKELY enjoy?

- A a true story about a family of acrobats
- B a biography of a famous fashion designer
- C a documentary about the history of music
- D a story about two boys who train rescue dogs

5 Which of these BEST describes the author's purpose for writing the passage?

- A to explain why she liked the movie
- B to discuss the message of the movie
- C to persuade people to go see the movie
- D to summarize what happens in the movie

6 Which of these BEST describes how the description of the movie in the first paragraph is organized?

- A chronological order
- B order of importance
- C a series of causes and effects
- D arguments with supporting details



7 Which of these sentences from the passage BEST supports the idea that Celia enjoys life with the circus?

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- A If you're in the mood to laugh, go see this movie.
- B It was very interesting to learn about the lives of the performers.
- C Celia even gets to teach some dogs tricks to perform in the ring.
- D They become best friends.

8 Which word is a synonym for *talents* in the sentence?

Lisa Manning, who plays Charlie, shows off her <u>talents</u> as an actress, too.

- A fears
- B looks
- C failures
- D abilities

9 What is the meaning of the word *aspects* in the sentence?

Although it was one of the most fascinating <u>aspects</u> of the film, the movie only showed the lives of the circus performers at the beginning.

- A parts
- B themes
- C minutes
- D conflicts

10 Which word BEST replaces hard as it is used in the sentence?

Celia is not used to living in one place, and it is hard for her.

- A firm
- B solid
- C rugged
- D difficult

Solutions

Number	Correct Answer	Explanation
1	С	Identifies and uses knowledge of common textual features (e.g., paragraphs, topic sentences, concluding sentences, glossary). (ELA5R1b)
		The correct answer is Choice (C) to summarize her thoughts about the movie. The last paragraph begins with the clue word <i>Overall</i> , which signals that a summary is to follow and reiterates the author's thoughts about the movie. Choice (A) is incorrect because the last paragraph does not introduce the plot of the movie. The plot is introduced in the first paragraph. Choice (B) is incorrect because the last paragraph does not describe the author's favorite part of the movie. The author's favorite part is described in the second paragraph. Choice (D) is incorrect because the last paragraph does not explain the roles each actor played in the movie. The roles each actor played are explained in the second to last paragraph.
2	D	Identifies and analyzes main ideas, supporting ideas, and supporting details. (ELA5R1f)
		The correct answer is Choice (D) People who like to be entertained should go see this movie. The main idea of the passage is that <i>The Really Real Story of Celia</i> <i>Spencer</i> is an entertaining movie that people should go see. Choices (A) and (C) are incorrect because the passage does not state or imply that the movie would not be interesting to adults or that action and adventure movies are not for everyone. Choice (B) is incorrect because, although the last paragraph states that the movie was funny and entertaining overall despite certain parts that "were a little slow," this is not the main idea of the whole passage.
3	D	Distinguishes cause from effect in context. (ELA5R1e)
		The correct answer is Choice (D) They are a little different from most other kids. The third paragraph says, "They are always happy with who they are, even when they don't fit in with the rest of the crowd." Choice (A) is incorrect because there is nothing to indicate that they are both shy around other people, and choices (B) and (C) are incorrect because they only apply to Celia, not to Charlie.



Number	Correct Answer	Explanation
4	Α	Makes perceptive and well-developed connections. (ELA5R1g)
		The correct answer is Choice (A) a true story about a family of acrobats. In the second paragraph the author writes, "It was very interesting to learn about the lives of performers," and she calls this part of the movie "one of the most fascinating aspects of the film." Both of these statements support the prediction that she would also like a story about a family of acrobats. Choices (B) and (C) are incorrect because nothing in the passage states or implies that the author would enjoy either of these topics. Choice (D) is incorrect because, although the author enjoyed a movie about two girls who teach dogs tricks, this does not mean she would enjoy a movie about two boys who train rescue dogs.
5	С	Evaluates the role of the media in focusing attention and in forming an opinion. (ELA5LSV2b)
		The correct answer is Choice (C) to persuade people to go see the movie. The first and last sentences of the first paragraph and the last sentence of the passage tell the reader to "go see the movie." Choices (A), (B), and (D) are incorrect because, although the author explains what she likes about the movie, discusses the messages of the movie, and summarizes what happens in the movie, the overall purpose of the passage is to persuade people to go see the movie.
6	A	Identifies and uses knowledge of common organizational structures (e.g., chronological order, logical order, cause and effect, classification schemes). (ELA5R1d)
		The correct answer is Choice (A) chronological order . The description of the movie in the first paragraph tells what happens in the movie in the order that it occurred on screen. Choices (B) and (D) are incorrect because the description is not listed in order of importance, nor is it presented as arguments with supporting details. Choice (C) is incorrect because, although some of the description includes cause and effect examples (e.g., "When the circus goes out of business, Celia's parents decide it is time to settle down"), the description is not a series of causes and effects.

Number	Correct Answer	Explanation
7	С	Identifies and analyzes main ideas, supporting ideas, and supporting details. (ELA5R1f)
		The correct answer is Choice (C) Celia even gets to teach some dogs tricks to perform in the ring. The phrase "even gets to" implies that what follows is something enjoyable. The author's word choice shows that Celia likes this aspect of circus life. Choices (A) and (B) are incorrect because they are not about Celia— Choice (A) addresses the reader, and Choice (B) describes the author's thoughts. Choice (D) is not correct because it refers to Celia and Charlie's friendship, which was not a part of Celia's <i>life with the circus</i> .
8	В	Identifies and applies the meaning of the terms antonym, synonym, and homophone. (ELA5R3i)
		The correct answer is Choice (D) abilities. The word <i>abilities</i> and the word <i>talents</i> are synonyms. Choices (A) and (B) are incorrect because <i>fears</i> and <i>looks</i> do not mean the same thing as <i>talents</i> . Choice (C) is incorrect because <i>failures</i> would be an antonym for the word <i>talents</i> .
9	Α	Determines the meaning of unfamiliar words using context clues (e.g., definition, example). (ELA5R3b)
		The correct answer is Choice (A) parts. In the sentence, the word aspects refers to the part of the movie that "showed the lives of circus performers." Choices (B), (C), and (D) are incorrect because the word <i>aspects</i> does not mean <i>themes</i> , <i>minutes</i> , or <i>conflicts</i> in the sentence.
10	D	Recognizes and uses words with multiple meanings (e.g., sentence, school, hard) and determines which meaning is intended from the context of the sentence. (ELA5R3h)
		The correct answer is Choice (D) difficult. In the sentence, <i>hard</i> means <i>difficult</i> . Living in one place was difficult for Celia. Choices (A), (B), and (C) are incorrect because, although <i>firm, solid,</i> and <i>rugged</i> can be synonyms for <i>hard</i> , they do not mean the same as <i>hard</i> in the sentence.

English/Language Arts







English/Language Arts

Grade 5 students use writing as a tool for learning, and they write for a variety of purposes and audiences. These students write daily in order to maximize and formalize their writing skills. Students communicate their personal voices in writing, expressing ideas through journals, notes, and e-mails. They understand and articulate how authors use a variety of techniques and craft in their writing, and they show evidence of the author's craft in their own writing. Additionally, students are aware of the connections between reading and writing, and they use those skills to learn and understand more about their world and different cultures. Students continue to increase vocabulary knowledge through reading, word study, discussion, and content area study.

The English/Language Arts activities focus on some of the concepts that are assessed on the Grade 5 CRCT English/Language Arts domains. These domains are as follows:



Grammar/Sentence Construction



Research/Writing Process



Activities



1 Grammar/Sentence Construction

Georgia Performance Standard ELA5C1

Within the Grammar/Sentence Construction domain, students learn to recognize and apply standard rules of capitalization, punctuation, language usage, and standard spelling. Students identify and analyze various sentence patterns, problematic sentences, including sentence fragments and run-ons, and the basic parts of a sentence. Students revise paragraphs by combining sentences using proper conjunctions and punctuation, select verb phrases that maintain consistency in tense, and differentiate between compound, complex, and compound-complex sentences. In addition, students demonstrate appropriate use of varied sentence structures by removing misplaced and dangling modifiers from sentences and differentiating between the four sentence types: imperative, declarative, exclamatory, and interrogative.

The following activities develop skills in this domain:

 To help students recognize the various types of sentences, run-ons, and fragments, play *Grammar Bingo* in small groups or as a whole class. To begin, prepare a Bingo card for each student that looks like a variation of the following model, with each blank square containing a sentence type:

В	I	N	G	0
interrogative	exclamatory	declarative	imperative	declarative
compound- complex	declarative	compound	interrogative	complex
exclamatory	interrogative	free space!	compound	compound- complex
compound	complex	imperative	complex	exclamatory
imperative	compound	compound- complex	declarative	interrogative

Next, students will cut out bingo markers to cover the called blanks on their cards during the game. Explain that you will randomly select a *B*, *I*, *N*, *G*, or *O* by rolling a modified dice cube (use tape to cover the dots with letters). Then write a sentence on the board that corresponds to one of the sentence types on the Bingo cards. On their *Grammar Bingo* cards, students try to cover the appropriate blanks under the rows for the letter rolled. Many sentences will fall into more than one category, so students can cover up more than one blank if appropriate. For example, if you roll *G* and then say, *I ate grilled cheese for lunch, and then I had roast beef for dinner,* a student with a *compound* square and a *declarative* square under letter *G* can cover both. To win, students must cover a full diagonal, horizontal, or vertical line. Check the winners for accuracy by referring to the sentences on the board.



 To improve their writing skills, students should practice combining and punctuating sentences. Hand out sheets containing different paragraphs spaced apart on the pages. These paragraphs should contain many simple sentences. Before the activity begins, spend a minute or two modeling combining sentences—by adding conjunctions such as *and* or *but* and commas, if necessary. Sample sentences to combine may include:

- Our teacher was out sick. A substitute came to teach our class.
 (Our teacher was out sick, but a substitute came to teach our class.)
- Last night, the rain kept falling. My dog got very wet. (Last night, the rain kept falling, and my dog got very wet.)

Then give students several minutes to combine the simple sentences on their paragraph sheet. When students have finished working with their paragraphs, they should pass the sheet to a classmate. Students will review others' corrections and discuss the conjunctions and commas they have used.

To practice using consistent verb tenses and eliminating dangling modifiers, students will write in a daily journal for one week. (*Consistent verb tense* means that the writing remains in the same tense throughout. A *dangling modifier* is a phrase-modifying word that is not clearly stated. For example: *Having completed the meal, the dishes were done*. This sentence includes a dangling modifier; readers do not know who or what completed the meal. The sentence, as written, suggests that the dishes completed the meal.) Explain that students can write about anything they choose in their journals; their writing will not be shared with others. At the end of the week, model either inconsistent verb tenses or dangling modifiers for students by writing a sample sentence incorporating the error on the board. Focusing on the selected writing error, students will check their own journal writing and highlight examples of the error wherever it appears. Then students will fix the sentences they have highlighted. After spending a week focusing on one writing error, focus on the other using the same approach.

Activities



2 Research/Writing Process

Georgia Performance Standards ELA5W1, ELA5W2, ELA5W3, and ELA5W4

Within the Research/Writing Process domain, students learn to use and analyze the purpose of research and technology, use resources to support the writing process, and evaluate the various strategies, styles, and purposes of written organization. Students analyze the organizational structure of a paragraph by determining the most appropriate pattern for a writing purpose and apply knowledge of appropriate transition elements between paragraphs, passages, and ideas. Students determine main ideas and relevant details, as well as appropriate topic sentences and closing sentences. To achieve clarity, students reorganize sentences in a paragraph. Students analyze various reference sources used to support writing, including a dictionary and thesaurus, and demonstrate knowledge of elements such as citations, end notes, footnotes, bibliographic entries, and appendices.

The following activities develop skills in this domain:

- To help students recognize and demonstrate an understanding of citations, end notes, footnotes, tables of contents, bibliographic entries, and appendices, play *Element Hunt*. Select examples (from any appropriate texts) of each of the following: an in-text citation, an end note, a footnote, a bibliographic entry, a table of contents, and an appendix. Copy these elements onto sheets of paper. Then, remove one component from each, such as the page numbers (from a table of contents) or a city of publication (from a bibliographic entry). For the activity, students (working individually or in pairs) should review the elements and try to find their missing components.
- Identifying the main ideas and relevant details of paragraphs is an important part of becoming a good researcher. First, make sure students understand the terms main idea and details. Then read a series of paragraphs aloud to students from an encyclopedia or Internet article. Read each paragraph slowly and project it on an overhead while students write down the main idea in their own words. When students have finished identifying the main idea, discuss the details in the paragraph. What could be added or taken away? Should any of the sentences be reorganized? Why does finding the main idea and relevant details efficiently make researching a topic easier? A variation of this activity is to place students in pairs in order to discuss the reasons for their choices.
- To give students practice creating appropriate closing sentences, play *That's a Wrap*. Write several paragraphs on the board or a piece of paper. These paragraphs should explain an event that happened, describe a topic, or give instructions for doing or making something. The sentences may even come from reading selections the students have already seen. However, for each paragraph, eliminate the closing sentence. Students should read the

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paragraphs and write strong closing sentences for each of them. When students have finished, discuss their sentences and whether they properly summarized the information in the paragraphs. As an extension activity, students should remove the last sentence from paragraphs they have written. Then in pairs, students should read their partner's paragraphs and create new closing sentences. Finally, the students should compare the different closing sentences.



What part of speech is the underlined word in the sentence?

I wanted a glass of juice, <u>but</u> my mother gave me a glass of milk.

A adverb

1

- B adjective
- C preposition
- D conjunction

2 Which verb phrase BEST completes the sentence?

Because the factory closed last year, all the workers _____ away.

- A is moving
- B are moved
- C has been moved
- D have been moving

3 Which sentence uses question as an adjective?

- A The sentence needs a question mark.
- B I have a question about how to fix my bike.
- C Can you answer my question about the homework?
- D Did you question your neighbor about the missing dog?

4 What type of sentence is this?

Please keep off of the grass.

- A declarative
- B imperative
- C exclamatory
- D interrogative

5 Which sentence uses commas correctly?

- A I was born on, Sunday June 21, 1992, in Athens Georgia.
- B I was born on Sunday June 21, 1992, in Athens, Georgia.
- C I was born on Sunday, June 21, 1992, in Athens, Georgia.
- D I was born on, Sunday, June 21 1992, in Athens Georgia.



6 Which organizational structure is used in this paragraph?

Andrew Jackson was sworn in as the seventh president of the United States on March 4, 1829. Jackson was a very popular president because he represented the common man. During presidential speeches, crowds of thousands would gather to support Jackson. He was liked and respected by many. As a result, Jackson was elected to serve a second term as president of the United States.

- A cause and effect
- B chronological order
- C question and answer
- D similarity and difference

7 Which transition would BEST connect the two sentences?

Most maple trees grow tall. The Japanese maple tree is a smaller kind of maple tree.

- A so
- B and
- C however
- D therefore

8 Which supporting detail is MOST important to add to the paragraph below?

A colorful Spanish fan is easy to make, and it looks beautiful, too. First, take a sheet of paper and decorate it with a bright pattern. When you have finished, fold the paper back and forth, making sure that all the folds are equal in size. Staple the folds at one end, and attach a popsicle stick for the handle. That is all there is to it!

- A Madrid is the capital of Spain and has a population of over three million.
- B Ceiling fans help keep people cool during hot summer months.
- C Some Spanish dance music is played on the guitar.
- D Glitter can add extra sparkle to your pattern.

9 Which sentence in the paragraph repeats an idea?

¹Joshua and Carrie walked to the store to buy several supplies for lunch. ²They needed to buy a number of items. ³Joshua needed some juice, and he also needed bread to make sandwiches. ⁴Carrie needed paper towels and milk. ⁵Both of them were able to purchase the items on their list.

- A sentence 2
- B sentence 3
- C sentence 4
- D sentence 5

10 Which of these should be added to the paragraph to make the BEST closing sentence?

Jasmine bounced into the kitchen, but she came to a sudden halt as she looked around the room. Sammy, her little brother, had decided to make brownies, but he had never done any cooking before. One broken egg made a bright yellow spot on the floor. The yellow of another egg dripped down the side of the cabinet. A box of brownie mix lay on its side on the counter, and more brownie mix lay in a pile on the floor.

- A Sammy called to her.
- B Jasmine liked to make brownies.
- C Her brother would make pizza next.
- D The kitchen was certainly a huge mess.

Solutions

Number	Correct Answer	Explanation
1	D	Uses and identifies the eight parts of speech (noun, pronoun, verb, adverb, adjective, conjunction, preposition, interjection). (ELA5R3h)
		The correct answer is Choice (D) conjunction . A conjunction joins two complete sentences. <i>I wanted a glass of juice</i> and <i>my mother gave me a glass of milk</i> can both stand alone but have been joined by the conjunction <i>but</i> . Choice (A) is incorrect because an adverb modifies a verb. Choice (B) is incorrect because an adjective modifies a noun. Choice (C) is incorrect because, even though a preposition links nouns and phrases together in a sentence, it generally describes a relationship between two things in space or time.
2	D	Uses and identifies verb phrases and verb tenses. (ELA5C1c)
		The correct answer is Choice (D) have been moving. The helping verb <i>have</i> must be used with the plural <i>workers. Have been moving</i> signifies an action that has not been completed yet. The workers are gradually moving away. Choice (A) is incorrect because <i>is</i> is a singular verb and does not agree with the plural noun <i>workers.</i> Choice (B) is incorrect because, even though <i>are</i> is a plural verb and agrees with the plural noun <i>workers, moved</i> implies that the action is in the past, which does not make as much sense as a gradual change. In addition, <i>are moved</i> implies that someone else moved them. Choice (C) is incorrect because <i>has</i> is a singular verb and does not agree with the plural noun <i>workers</i> .
3	Α	Recognizes that a word performs different functions according to its position in the sentence. (ELA5C1d)
		The correct answer is Choice (A) The sentence needs a question mark. <i>Question</i> is an adjective in this sentence because it describes the noun <i>mark</i> . An adjective describes a noun. Choices (B) and (C) are incorrect because <i>question</i> is a noun in both sentences. Choice (D) is incorrect because <i>question</i> is a verb in this sentence.

Number	Correct Answer	Explanation
4	В	Varies the sentence structure by kind (declarative, interrogative, imperative, and exclamatory sentences and functional fragments), order, and complexity (simple, compound, complex, and compound-complex). (ELA5C1e)
		The correct answer is Choice (B) imperative. An imperative sentence gives a command, or tells someone to do something, which is what the sentence in the question does. Choice (A) is incorrect because a declarative sentence simply makes a statement. Choice (C) is incorrect because an exclamatory sentence is one with emotion or urgency, generally ending in an exclamation point. Choice (D) is incorrect because an interrogative sentence is one that asks a question and ends in a question mark.
5	С	Uses additional knowledge of correct mechanics (e.g., apostrophes, quotation marks, comma use in compound sentences, paragraph indentations), correct sentence structure (e.g., elimination of fragments and run-ons), and correct Standard English spelling (e.g., commonly used homophones) when writing, revising, and editing. (ELA5C1g)
		The correct answer is Choice (C) I was born on Sunday , June 21, 1992, in Athens, Georgia. Commas are used between a day of the week and a month, between a date and a year, and after a year to set it off from the rest of the sentence. A comma is also used between a city and a state. Choice (A) is incorrect because it lacks commas after <i>Sunday</i> and <i>Athens</i> , and it includes an unnecessary comma after <i>on</i> . Choice (B) is incorrect because it lacks a comma after <i>Sunday</i> . Choice (D) is incorrect because it lacks commas after <i>21</i> and <i>Athens</i> , and it includes an unnecessary comma after <i>on</i> .

Number	Correct Answer	Explanation
6	Α	Uses traditional structures for conveying information (e.g., chronological order, cause and effect, similarity and difference, and posing and answering a question). (ELA5W1c)
		The correct answer is Choice (A) cause and effect. The use of <i>because</i> and <i>as a result</i> identifies this paragraph as <i>cause</i> and <i>effect</i> organizational structure. The <i>causes</i> in the paragraph include the facts that Jackson was popular, supported, and respected by many. The <i>effect</i> is he was elected to serve a second term. Choice (B) is incorrect because the paragraph lacks a series of dates and transition words (next, then, finally) that are found in a chronological structure. Choice (C) is incorrect because the paragraph does not compare two things or ideas in order to point out their similarities and differences.
7	С	Uses appropriate structures to ensure coherence (e.g., transition elements). (ELA5W1d)
		The correct answer is Choice (C) however. The Japanese maple is a contrast to most maple trees because it is small. <i>However</i> signifies a contrast between the first part and the second part of the sentence. Choices (A) and (D) are incorrect because <i>so</i> and <i>therefore</i> suggest that the second sentence describes an effect caused by the first. Choice (B) is incorrect because <i>and</i> does not express the fact that the second sentence is a contrast to the first sentence.
8	D	Includes appropriate facts and details. (ELA5W2d)
		The correct answer is Choice (D) Glitter can add extra sparkle to your pattern. Only this sentence provides details about how to make a Spanish fan. Choices (A), (B), and (C) have nothing to do with the topic of making Spanish fans.

Number	Correct Answer	Explanation
9	Α	Excludes extraneous details and inconsistencies. (ELA5W2e)
		The correct answer is Choice (A) sentence 2. The phrase several supplies from sentence 2 means the same thing as number of items from sentence 1. Choice (B) and (C) are incorrect because they provide different information about the types of supplies needed (juice, bread, paper towels, and milk). They are not repetitive because they are specific to two different people. Choice (D) is incorrect because it summarizes the paragraph by telling that Carrie and Joshua were successful and were able to buy everything they needed.
10	D	Provides a sense of closure to the writing. (ELA5W2h)
		The correct answer is Choice (D) The kitchen was certainly a huge mess. A closing sentence usually summarizes the paragraph. Choice (D) is the only one that sums up what the paragraph is about. Choice (A) is incorrect because it describes an action that has little to do with what is described in the rest of the paragraph. Choice (B) is incorrect because it is simply a detail about Jasmine and does not summarize what the paragraph is about. Choice (C) is incorrect because it describes what may happen in the future without summarizing what the paragraph describes.

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Chapter 3



Mathematics

By the end of Grade 5, students will further develop their understanding of multiplication and division of whole numbers, decimals, and fractions. They will also understand and investigate algebraic mathematical expressions. Students will expand their understanding of computing area and volume of simple geometric figures. Students will understand the meaning of congruent geometric shapes and the relationship of the circumference of a circle to its diameter. They will also use percentages and circle graphs to interpret statistical data.

The Mathematics activities focus on some of the concepts that are assessed on the Grade 5 CRCT Mathematics domains. These domains are as follows:





Geometry

Algebra

Data Analysis and Probability

The *Mathematical Process Skills* are integrated throughout the domains. These are skills used to acquire and apply content knowledge.

Mathematical Process Skills refer to students' dexterity in applying concepts and skills in the context of authentic problems and in understanding concepts rather than merely following a sequence of procedures. Process skills are used to acquire and apply content knowledge. Process skills include solving problems that arise in Mathematics and other contexts, reasoning and evaluating mathematical arguments, communicating mathematically, making connections among mathematical ideas and with other content areas, and representing mathematical ideas in multiple ways.



Activities



1 Number and Operations

Georgia Performance Standards M5N1, M5N2, M5N3, M5N4, and M5N5

Within the Number and Operations domain, students will further develop their understanding of whole numbers by classifying the set of counting numbers into subsets with distinguishing characteristics (e.g., odd/even or prime/composite), finding multiples and factors, and using divisibility rules. They will further develop their understanding of place value and decimals in the base-ten number system by analyzing the effect on the product when a number is multiplied by 10, 100, 1000, 0.1, and 0.01. Students will use less than (<), greater than (>), and equal to (=) to compare decimals. Students will model and explain the process of multiplication and division using whole numbers and decimals less than one and greater than one. They will understand that the relationships and rules for multiplication and division of whole numbers also apply to decimals. Students will understand that division of whole numbers can be represented as a fraction $\left(\frac{a}{b}=a+b\right)$ and that the value of a fraction is not changed when both numerator and denominator are multiplied or divided by the same number. They will find equivalent fractions, simplify fractions, and model the multiplication and division of common fractions, including estimation of products and quotients. Students will explore finding common denominators using concrete, pictorial, and computational models. They will use less than (<), greater than (>), and equal to (=) to compare fractions, and they will add and subtract common fractions and mixed numbers with unlike denominators. They will use proper and improper fractions and decimals interchangeably. Students will model percents using multiple representations and apply percentage to circle graphs.

The following activities develop skills in this domain:

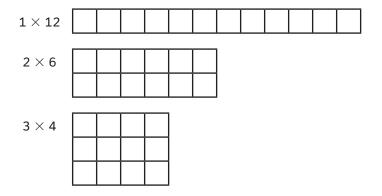
To apply multiplication and division to a real-life context, students can explore a problem involving invitations to a party. Present students with the following scenario: E-mail invitations to 25 friends asking if they would like to attend a party. Tell each friend that he or she can forward the invitation to some others. Assume that each recipient forwards the invitation to 16 people and each of those recipients, in turn, sends the invitation out to 9 more people. No other invitations are sent. Tell students they better order plenty of pizzas—each student should write down an estimate of how many pizzas they think they might need before doing any calculations. Ask students, What would happen if half of the invitation recipients attended? Responses will vary depending on the student's sense of how many invitations were sent out. Then students should calculate the total number of people who have received the e-mail invitation. Students should calculate how many people will have to share each pizza by dividing the number they estimated they would need by the number of attendees. Discuss with students how their planning would have changed if they had done the calculations first.

- Students can understand and derive factors by working with manipulatives.

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Give students a large set (100 or more, if possible) of linking cubes, square wooden tiles, or squares cut from posterboard. Choose a number for students to work with, starting with a number like 12. Students will draw 12 squares from the pile and use them to make as many different rectangles as possible. Students should start with one long row of squares to form a rectangle and then try adding rows to find other combinations that form a complete rectangle. With 12 squares, they can form 1 row of 12 squares, 2 rows of 6 squares, 3 rows of 4 squares, 4 rows of 3 squares, 6 rows of 2 squares, and 12 rows of 1 square (see examples below). Attempting to form 5 rows will result in an incomplete rectangle or leftover squares. Students will eliminate any rectangles with repeated dimensions (e.g., a rectangle with 2 rows of 6 squares is the same as a rectangle with 6 rows of 2 squares). The remaining pairs of dimensions represent the factors of the number 12: {1, 12, 2, 6, 3, 4}.



Students should repeat this with a variety of numbers, looking for patterns in the results. For instance, numbers for which students can only form one rectangle, such as 7 or 13, represent prime numbers. And for any even number, students can form a rectangle with two rows; while for any odd numbers students, cannot form a rectangle with two rows.

- To compare and simplify fractions, students should use randomly chosen fractions. Label three index cards with the symbols for less than (<), greater than (>), and equal to (=). Give students 15–20 index cards to use for writing down fractions of their choosing, one fraction per side. The fraction on one side should be in simplest form (e.g., $\frac{3}{8}$), and the fraction on the other should not (e.g., $\frac{24}{36}$, $\frac{8}{12}$, which can be simplified to $\frac{2}{3}$). All numerators and denominators should be one- or two-digit numbers. Display the symbol cards with plenty of space between them. Put all the index cards with written fractions in a container and have students draw two at random. Students should place the fractions on either side of the appropriate symbol card (<, >, or =) in order to make the equation true. If students are unsure of the relationship between the two fractions. If the relationship between two

Georgia Department of Education Copyright © August 2010 • All rights reserved Page 42 of 112 simplified fractions is still unclear, students can divide to compare decimal equivalents.

To further develop an understanding of decimals and the use of the comparative symbols <, >, and =, students will create and play a card game. Prepare ahead of time a list of decimals less than one and greater than zero that you want students to practice reading and comparing. (For an easier game, you may choose decimals to the hundredths place. For a more challenging game, you may choose decimals to the thousandths place). Post your decimal list or distribute copies to students. Distribute to each student a set of blank 3 × 5-inch index cards and paper for keeping score. Each student will create his or her deck of cards by writing a different decimal from your list onto each of their cards. Each card should contain only one decimal value.

Play the game as follows:

- Students will play in pairs. Each student will need his or her deck of cards, a sheet of paper to keep score, and a pencil.
- Holding their decks of cards face-down so that the numbers are not visible to either player, students will simultaneously flip over one card and display its value.
- The pair of students determines whose card shows the greater value.
- The player whose card has the higher value writes and reads aloud the correct comparative expression on his or her score sheet. For example, if the cards show 0.05 and 0.5, the player would write "0.5 > 0.05" and say aloud, "Five tenths is greater than five hundredths."
- The player whose card has the higher value also keeps both displayed cards and adds them back to his or her deck.
- If the values on the cards are equal, both players write the comparative expression on their score sheets, read the expression aloud, and randomly return their cards to their own decks.
- The game ends when one player has all the cards.

An alternative card game would be to have students use the < instead of the >. For example, if the cards show 0.05 and 0.5, the player would write "0.05 < 0.5" and say aloud, "Five hundredths is less than five tenths."



Activities



2 Measurement

Georgia Performance Standards M5M1, M5M2, M5M3, and M5M4

Within the Measurement domain, students will estimate and compute the area of fundamental geometric plane figures (rectangles, squares, triangles, parallelograms, polygons, and circles). They will derive and use the formula for the area of a parallelogram (e.g., cut the parallelogram apart and rearrange it into a rectangle of the same area) and for the area of a triangle (e.g., demonstrate and explain its relationship to the area of a rectangle with the same base and height). Students will estimate the area of a circle through partitioning, tiling, and then with the formula (using π = 3.14). They will also find the area of a polygon (regular and irregular) by dividing it into squares, rectangles, and/or triangles, and then finding the sum of the areas of those shapes. Students will find the circumference of a circle using the formula and $pi \approx 3.14$. They will find the area of a circle using the formula and $pi \approx 3.14$. They will use milliliters, liters, fluid ounces, cups, pints, guarts, and gallons to measure capacity and compare one unit with another in the same system of measurement (e.g., 1 quart = 2 pints). Students will understand that a cubic unit (u³) is represented by a cube in which each edge has the length of 1 unit; and they will identify the units used in computing volume as cubic centimeters (cm³), cubic meters (m³), cubic inches (in³), cubic feet (ft³), and cubic yards (yd³). They will derive the formula for finding the volume of a cube and a rectangular prism using manipulatives, and they will use the formula to compute volumes. Students will estimate the volume of a simple geometric solid, and they will understand the similarities and differences between volume and capacity.

The following activities develop skills in this domain:

- Students can use the layout of a house or other building to develop skills for finding the area of regular and irregular polygons by dividing them into squares, rectangles, and triangles. Copy or print from a magazine page or Internet site a floor plan of a one-story house that gives dimensions for each of the rooms. Discuss with students which rooms should be carpeted and which should be tiled, based on their own experience. Students will create a chart listing each room, type of floor covering, and area. For rooms and spaces with an unusual shape, students should break the full area up into recognizable shapes and add up the areas to find the total. If any measurements are not listed, students will estimate using given measurements. After calculating the area for each room and space, students should add the carpeted areas to figure out the total square feet of carpeting needed and then repeat the steps for the tiled areas.
- To work with radius and area of circles, students should explore the realworld situation illustrated by the diagram on the next page. A farmer buys a new system to water crops that uses a rotating steel arm, which sprays water over a circular area. The arm rotates around a center point of an existing

square field. The arm will reach exactly to the edges of the square. The square field measures 100 feet along each edge. Students will answer the following questions:

- What is the length of the arm?
- What is the area watered by the system?
- What area of the square field will NOT be watered?



- Students will compare units of capacity by making their own recipe for punch. Students will find or invent a recipe for a delicious punch using 3–5 ingredients, such as soda, juices, and chopped fresh fruit. Tell students that they can use whole numbers, mixed numbers, and fractions of a cup for each ingredient. The total of all ingredients must be equal to 1 gallon. Students will use the following conversions as they work:
 - 1 gallon = 4 quarts
 - 1 quart = 2 pints
 - 1 pint = 2 cups
 - 1 cup = 8 ounces

NOTE: If containers are available in each size, students should determine (or confirm) the conversions by filling the larger containers with water from the smaller ones.

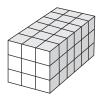
Once students have chosen the amount of each ingredient and written this down in a table, they should confirm that the total adds up to exactly one gallon. Students will figure out how many people their recipe will serve if each person drinks exactly one cup of punch (i.e., 1 gallon = 16 cups, so 1 gallon serves 16 people). Tell students that you are planning a big celebration and need one cup for each of the 48 guests. Students should now calculate how much of each ingredient will be needed to make enough punch to serve all the guests if each of the 48 guests drinks exactly one cup of punch.

 Students will construct cubes and rectangular prisms as a way to develop an understanding of the cubic unit and how the cubic unit is used to measure volume. Students will also develop the formula for finding the volume of a rectangular prism. Prepare ahead of time by collecting a large number of small cubes, such as cube-shaped blocks and dice. Distribute a number of cubes to groups of two or three students and distribute blank record sheets to each group, similar to the one that follows.



Measureme	ents of the Base			
Base (b)	Height (<i>h</i>)	Area of the	Height of Solid	Volume (V)
		Base (B)	(h)	

Demonstrate how to create a rectangular prism from cubes. Start by building the bottom layer, or Base (*b*), first. For example, the Base of the following rectangular prism has a base of 6 units and a height of 3 units. Record these numbers on the chart. Explain that by multiplying the base by the height, students can calculate how many cubes are used in the Base of the solid—explain that this is the *area of the Base* of their prism (*B*). Calculate the area of the Base ($b \times h$) and record this information on the chart (i.e., $6 \times 3 = 18$). Explain that every time a unit of height is added to the prism, another layer with the same area as the Base is added. Ask students to guess how many more cubes would be needed to add a second layer to the prism (i.e., 18 more). Students should understand that for every layer, another 18 cubes will be used. Next, count and record the number of layers, or the *height of the solid*, for your rectangular prism. To calculate the total number of cubes in the solid, students will multiply the number of cubes in the Base (area of the Base) by the number of layers (the height of the solid).



Explain that the *volume* (*V*) of the rectangular prism equals the number of cubes used to build it. Students will use the area of the Base and the height of the solid from the chart to find the volume of the rectangular prism. In this case, the volume is 54 cubic units. Explain that the volume is measured in units so the label is u³ and is read "cubic units." So the volume of the rectangular prism is 54 u³. Record this information on the chart using the correct cubic unit label. Student groups will use their small cubes to build new rectangular prisms. They will examine their prisms, they will count and record how many cubes were used for the base and height of the Base, and then they will calculate the area of the Base. Students will count and record how many layers high their prism is (height of the solid) and multiply this number by the area of the Base to find the volume of the solid. Finally, students will count the total number of cubes that were used to construct the rectangular prism and compare this number to their previously calculated

Georgia Department of Education Copyright © August 2010 • All rights reserved Page 46 of 112 volume. Once groups have had sufficient time to create several prisms, record information, and verify their calculations, bring the class back together for the following discussion:

Elicit information from one group about one of their rectangular prisms.
 Write the information on the board or chart paper. For example:

```
Base (b) = 8
Height (h) = 3
```

```
Area of the Base (B) = ____24
```

- Height of Solid (h) = _____
- Volume (V) = _____48
- Ask the class if they can figure out what formula can be used with the area of the solid's Base and height of the solid to find the volume. Assist the class, if necessary, to come to the formula of V = Bh (where B = area of the Base).

Conclude the activity by allowing the groups to use the formula to check the volumes of their other prisms.



Activities



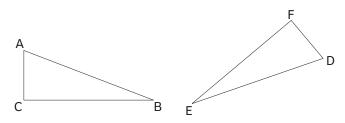
B Geometry

Georgia Performance Standards M5G1 and M5G2

Within the Geometry domain, students will understand congruence of geometric figures and the correspondence of vertices, sides, and angles. They will understand the relationship of the circumference of a circle, its diameter, and pi ($\pi \approx 3.14$).

The following activities develop skills in this domain:

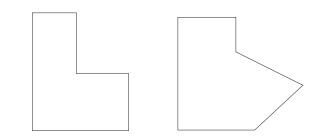
- To enhance their understanding of congruent figures and corresponding vertices, angles, and sides, students will create geometric figures on grid paper. Display the definition of congruent figures on the board or chart paper. Include with the definition a visual example of two figures that are the same shape and size by posting two identical triangle cutouts that are oriented in different directions. Label the corresponding angles of the two triangles alike, such as angles A, B, and C, and angles D, E, and F so that triangle ABC is congruent to triangle DEF.
 - Congruent figures are two or more geometric figures whose corresponding sides and angles are congruent.



Remind the students that, although the triangles are "pointing" in different directions, they have corresponding sides of exactly the same length and corresponding angles of exactly the same measure. Together with the students' help, label the corresponding angles and sides of the second triangle. Reinforce the definition by placing one shape on top of the other to show how the sides and angles correspond.



Students will create two or three irregular shapes on grid paper. Encourage students to combine triangles, rectangles, and squares, similar to the examples below, when they design their shapes. Students will label the angles of the new shapes with the letters Q, R, S, etc., and the sides with QR, RS, ST, etc.



After all students have drawn two or three different shapes, they will trade papers with a partner. Challenge students to create shapes that are congruent to the ones their partners drew, including the same side lengths, angle measures, and angle and side labeling. Do not allow them to trace the shapes. Rather, have them observe, study, and measure the lines that their partners drew as they transfer the shapes onto a new piece of grid paper. Remind them that they can flip or rotate the shape, and the figures will still be congruent. However, the shapes must be the same size, and all sides and angles must have the same measurements as the originals. Students will write statements describing the congruency of the original and new shapes, such as "Side AB is congruent to side QR." Students will check their work by cutting out their new shapes and attempting to fit them over the original drawings by matching congruent sides and angles. Conclude the activity by having students discuss shapes that they found to be incongruent. Have the students explain what made the shapes incongruent.

Students will manipulate congruent geometric figures and observe the correspondence of their vertices, sides, and angles by working with shapes they have created. Congruent geometric figures have the same size and shape, since all corresponding angles and sides are equal. Students should explain why it is important that all rectangular CD cases are congruent. Discuss the importance of congruence for other shapes in the real world, such as floor tiles, printer/copy paper, envelopes, and ATM cards. Separate students into small groups or pairs. One student will draw a triangle using only a ruler and label each side and angle using letters. The student should not let the others see the shape he drew. Others should ask questions until they are able to create a congruent figure on their own page using a ruler and protractor. Questions might include *What are the lengths of the sides? What are the measures of angles?* When the students have completed the figures, they will cut them out and check for accuracy by placing them on top of the original.

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To establish the relationship between the circumference of a circle, its diameter, and pi, discuss the way a bicycle odometer works. Explain that a bicycle odometer measures how far a bike has traveled by counting how many times the wheel goes around. Thinking of the common measurements of a circle (radius, diameter, circumference), students will describe which measurement represents how far the bike has moved when the wheel has gone around exactly once. Since different bikes have different tire sizes, the odometer has to be set up for the proper tire size or its measurements will be wrong. Discuss why this is the case. Next, give students a chart with columns for *Diameter, Radius, Circumference, Diameter, Radius, Circumference, Diameter, Radius, Circumference, Radius, and Circumference, Diameter, Students will fill out the chart for each of the following common diameters of bicycle tires: 16 in., 20 in., 24 in., 26 in., and 27 in. Students will describe what pattern they see when the diameter.*

To work with measurements of circles, students should gather circumference measurements of common objects using string. They will first brainstorm several circular objects in their surroundings for which they are able to measure circumference using string, such as a tire, lampshade, frying pan, clock, or trash can. Students will explain why it might be difficult to measure the radius or diameter of an object (e.g., hard to pinpoint the center, cannot measure inside a solid, etc.). Give students expressions they can use to find the diameter and radius once they have measured the circumference:

 $d = C \div \pi$, where d = diameter, C = circumference, and $\pi \approx 3.14$ $r = d \div 2$, where r = radius and d = diameter

Students will substitute the values for *C* they measured and find the values for the diameter and radius. They should create a table to record the circumference, diameter, and radius of each object.



Activities



4 Algebra

Georgia Performance Standard M5A1

Within the Algebra domain, students will represent and interpret the relationships between quantities, using variables (such as n or x) for unknown quantities in algebraic expressions. Students will investigate simple algebraic expressions by substituting numbers for the unknown.

The following activities develop skills in this domain:

Students will investigate simple algebraic expressions by substituting numbers for the unknown, using the scenario of a scuba diving trip.
 Tell students that they are going to plan a trip to go scuba diving with friends.
 The group will share one boat. Each person has to rent diving equipment for the day. Ask the students to write an expression that represents the total cost of a scuba diving trip, where *n* = the number of people. Give them the information in the table below. Students should evaluate their expression to find the total cost for a group of 2 people and then for a group of 8 people.

	Captain's Dive Shop
Boat	\$200
Diving Equipment	\$40 per person

- To use variables for unknown quantities in algebraic expressions, students should explore real-life situations that can be expressed mathematically. For instance, the relative age of siblings. Say Ali is 9 years old and Bart is 13. That means that Bart is 4 years older than Ali, which can be expressed as: *n* + 4, where *n* is Ali's age. Similarly, if Bart's allowance is twice as much as Ali's plus another \$5, the expression 2*x* + 5, where *x* is Ali's allowance, would represent Bart's allowance. Brainstorm with students to come up with more examples.
- Students will investigate simple algebraic expressions by solving application problems. Offer students the following scenario: The Camping Club is planning a series of camping trips this fall. The club will provide equipment and organize transportation. Participants must bring enough food and water for the trip and be prepared to carry a backpack with all necessary equipment and food. The club would like to develop formulas to provide members an easy way to figure out how much weight they will need to carry for each trip. Consider the following to create the formulas:
 - Trips between April 15 and September 15 will use warm-weather gear (lighter tent and sleeping bag), which weighs 21 lbs, including the backpack.

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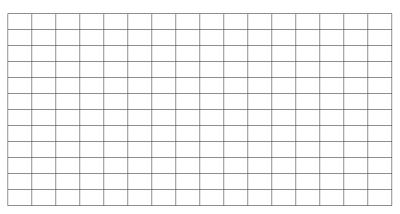


 Trips between October 16 and March 15 will use cold-weather gear (heavier tent and sleeping bag), which weighs 27 lbs, including the backpack.

- Students should plan to bring 1.75 lbs of food per day (water will be filtered along the way).
- Trips longer than 4 days will require an extra 7 lbs of gear (extra fuel for cooking and more cooking gear).

Formulas should allow members to figure out how much weight they will need to carry depending on when the trip occurs and how long it lasts. Students will use the formulas they create to determine how much weight each camper will be carrying at the start of each of the following trips:

- Second week of August—Black Rock Mountain State Park—2-day trip
- First week of September—Unicoi State Park—3-day trip
- Third week of November—Fort Mountain State Park—4-day trip
- First week of December—Vogel State Park—7-day trip
- Students will work with the formula for the area of a rectangle: Area = base × height ($A = b \times h$) to better understand that a formula is reliable, regardless of which type of number, whole or decimal, is substituted for a variable. Prepare 6-inch by 8-inch rectangles cut from sheets of white paper. Distribute a paper rectangle, an inch ruler, work paper, and crayons or markers to each student. Students will measure the base and height of the rectangles, then use the formula $A = b \times h$ to determine that the area is 48 square inches ($8 \times 6 = 48$). Point out that the formula was calculated using two whole numbers. Next, explain that students will now prove that the formula also works with decimals. Students will divide the base and height of the rectangles into half-inch intervals. Instruct students to mark every half-inch on their 8-inch by 6-inch rectangular paper using rulers. Then instruct them to draw vertical and horizontal lines at each mark to divide the rectangles into a grid, similar to the following grid:



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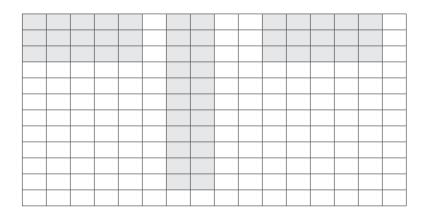
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Next, have all students color in a rectangle that is 5 squares across and 4 squares down, similar to the following grid:

Ask a student volunteer to answer the following questions, then post the answers on the board.

- What are the base and height measures of the shaded rectangle? (b = $2\frac{1}{2}$ inches and h = 2 inches)
- How can the base be written as a decimal? (b = 2.5 inches)
- What is the area formula for the shaded rectangle? (A = 2.5×2)
- What is the area of the shaded rectangle? (5 square inches)

Continue the activity by having students create and shade in other rectangles on their grid paper to determine that $A = b \times h$ is reliable in all examples. Ensure that some of the newly shaded rectangles have a 0.5 decimal for either the base, height, or both, similar to the examples that follow.

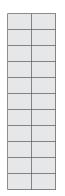


Conclude the activity by challenging the class to prove their answers by counting squares on the grid. Discuss and demonstrate how every *four* squares on the grid is one square inch. Then, have students count groups of four squares to get the whole number value of square inches, and have

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students count the remaining squares to get the decimal value of square inches of the shaded rectangles. Finally, students will check the formula by comparing the result with a count of squares to demonstrate the proof. For example, using the formula for the following rectangle, students will write $5.5 \times 1 = 5.5$ square inches. By counting groups of four, students will get $1 + 1 + 1 + 1 + 1 + \frac{1}{2} = 5.5$.





Activities



Data Analysis and Probability

Georgia Performance Standards M5D1 and M5D2

Within the Data Analysis and Probability domain, students will analyze data presented in a graph. They will compare and contrast multiple graphic representations (circle graphs, line graphs, bar graphs, etc.) for a single set of data and discuss the advantages/disadvantages of each. Students will determine and justify mean, range, mode, and median of a set of data. Students will collect, organize, and display data using the most appropriate graph.

The following activities develop skills in this domain:

- Students will better display data using the appropriate graph when they regularly ask questions about displays of data they encounter. Gather examples of simple graphs found in newspapers or through Internet searches. The graphs may represent data from a survey or study in a number of simple formats, including bar graphs, circle graphs, line graphs, and pictographs. Choose examples that will be interesting and meaningful for students. Regularly analyze one of these graphs with students so they are able to ask questions about the graph: Why was the data represented in this form? Can you think of another way to present the data that would also be successful? If not, why do you think this data cannot be presented in another way? To effectively gather, organize, and display data, give students an exercise in thinking critically about the steps involved. Write the following five questions on index cards:
 - What is the main question posed (the reason for the experiment or survey)?
 - How can I decide who should take my survey or participate in my experiment?
 - How can I best organize my data as I collect it?
 - What characteristic does the data have which will help me to decide how to represent it? (Why shouldn't I choose other types?)
 - Is my final display clear and easy to read?

Mix up the cards and have students put them in the correct order. Students should try to connect the questions to surveys and information-gathering they have done in the past.

- Students will understand the advantages and disadvantages of different types of graphs by working with tangible and meaningful examples. Students will determine how the same set of data can be displayed in different formats. Present several data-gathering situations for students to analyze, such as:
 - The measure of a student's height at each annual doctor's visit
 - The percentage of time the school bus is early, on time, and late
 - The number of miles a student runs each week while preparing for a race

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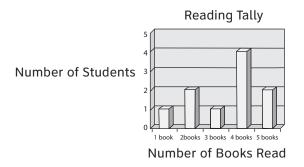


 The percentage of customers voting for each of 5 flavors of ice cream at the neighborhood ice cream store

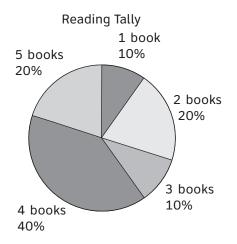
 The results of a vote on whether to have a school dance, showing the portion of students who voted yes or no—compare this to the results of the same vote, showing the numbers of yes and no votes broken down by gender

Students will then decide on values for each of the scenarios. Students should display the results after deciding how to best represent the data.

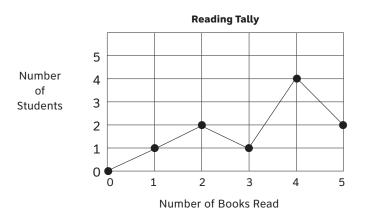
Students will compare and contrast multiple graphic representations of data and discuss the advantages/disadvantages of each. They will also analyze data presented in a graphic representation by determining and justifying the mean, range, mode, and median. Prepare ahead of time a series of graphic representations for a single set of data about the number of books read by 10 students. Representations should include a bar graph, circle graph, line plot, and pictograph, similar to the following. For contrast, you may also show examples of graphic representations that would not work for this particular set of data, such as a line graph (also shown below).

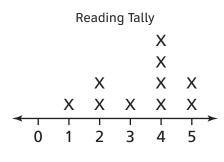


What percentage of students read a certain number of books?









Number of Books Read

Read	ing	Tally

Number of Books Read	Number of Students
1	
2	
3	(°
4	
5	
KEY	
$(\circ \circ)$ = 2 students	

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Display the five different representations. Tell the students that all of the representations show the same information but in different ways. Through a class discussion, have students confirm that each representation shows the same data. As a class, discuss which of the visual representations was most useful in finding the 10 values and why. *What are the advantages or disadvantages of each representation*? Discussion may include the following points:

- Line graphs are used to track changes over periods of time. Talk with students about why it is not helpful to display the information gathered in this way.
- Circle graphs are best to use when you are trying to compare parts of a whole.
- Bar graphs are used to compare things between different groups.
- A line plot is a quick and simple way to organize data along a number line.
- A pictograph shows numerical information by using picture symbols to represent data.
- Collect data from 10 students in class, for example the number of books they read over the summer, their height in inches, etc. Have all of the students study the values in the data set and determine the range, median, mode, and mean for the data.
 - Have the students list the 10 numbers in order from least to greatest. Then they should determine the range by subtracting the smallest number in the data set from the largest. Ask a student volunteer to justify the answer. Next, students will determine the median by finding the middle value in the list. Allow the class some time to determine the median. Listen for discussion and comments regarding the fact that there are 10 numbers and, therefore, no middle value. Guide the process for finding the median for an even number of values. Tell students that to find the median, they will locate the two middle values, add them together, and divide by two. This average will be the median. Ask a student volunteer to justify the answer. Then, they will determine the mode by finding the most repeated value in a list of values. After students have found the mode, ask a student volunteer to justify the answer. Finally, students will determine the mean, also known as the average. When the class has completed their calculations, ask a student volunteer to justify the answer.





1 Jane is solving a riddle. She needs to find a number that is ALL of these:

- a multiple of 2
- a multiple of 3
- a multiple of 9

Which number is a correct answer to the riddle?

- A 138
- B 243
- C 329
- D 522
- 2 Tyra's family went on a trip to Canada. Tyra had \$25 in United States currency to exchange for Canadian dollars. For every one U.S. dollar, Tyra received 1.17 Canadian dollars.

How many Canadian dollars did Tyra receive for her 25 U.S. dollars?

- A \$21.36
- B \$23.83
- C \$26.17
- D \$29.25
- 3 Marcy has $2\frac{1}{4}$ cups of flour. Her cookie recipe calls for $\frac{2}{3}$ cups of flour.

After she makes her cookies, how much flour will she have left?

- A $1\frac{3}{7}$ cups
- B $1\frac{7}{12}$ cups
- C $2\frac{3}{7}$ cups
- D $2\frac{11}{12}$ cups



4 Mr. Robinson made a circle graph showing the percentage of his students that ordered each lunch for tomorrow.

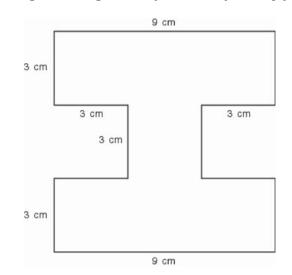
Tomorrow's Lunch



Which is the BEST estimate of the percentage of students that ordered a burrito for tomorrow's lunch?

- A 45%
- B 50%
- C 55%
- D 70%





5 Edgar is using the shape on his Spirit Day poster.

What is the area of this shape?

- A 21 cm²
- B 54 cm²
- C 63 cm²
- $D 81 \text{ cm}^2$
- Thomas and Lily brought orange juice to the annual soccer breakfast.
 Thomas brought 5 2-quart containers of orange juice. Lily brought 1
 1-gallon container of orange juice.

How many TOTAL cups of orange juice did Thomas and Lily bring? (1 quart = 4 cups; 1 gallon = 4 quarts)

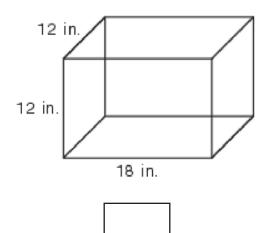
- A 40 cups
- B 44 cups
- C 48 cups
- D 56 cups



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7 Claudia's hamster cage is in the shape of a rectangular prism.

.....



V = Bh

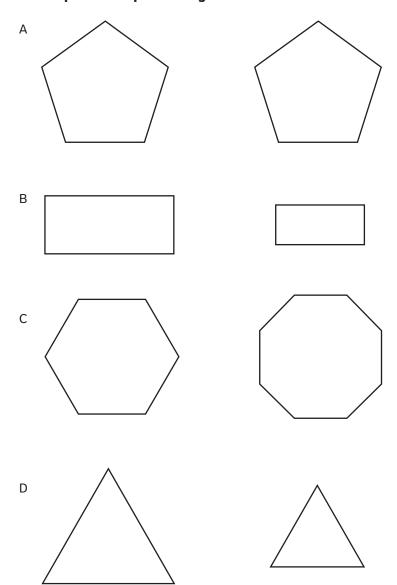
What is the volume of this cage?

- A 1,296 in.3
- B 1,728 in.³
- C 2,592 in.3
- D 5,832 in.³



8 Brandon cut out shapes that are congruent for his math project.

Which pair of shapes is congruent?



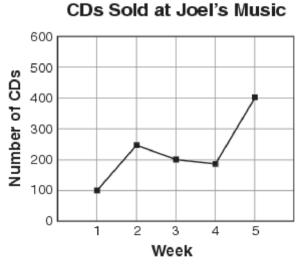


9 Veronica is x years old. Dustin's age can be found using the expression.

2x + 3

If Veronica is 8 years old, how old is Dustin?

- A 13
- B 16
- C 19
- D 31
- 10 The manager at Joel's Music made this line graph to show the number of CDs sold during a five-week period.



OD- Cold at lock's Music

Which statement is true about the CD sales at Joel's Music during the five weeks?

- A More CDs were sold in week 1 than in week 4.
- B Half as many CDs were sold in week 1 as in week 2.
- C The same number of CDs was sold in week 3 and in week 5.
- D Twice as many CDs were sold in week 3 as in week 1.



Solutions

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Number	Correct Answer	Explanation
1	D	Find multiples and factors. (M5N1b)
		The correct answer is Choice (D) 522. To find the answer, eliminate any choice which does not meet <i>ALL</i> of the characteristics listed. The number 522 is a 3-digit number and has no remainder when divided by 2, 3, or 9. Choice (A) is incorrect because <i>138</i> is not a multiple of 9. Choice (B) is incorrect because <i>243</i> is not a multiple of 2. Choice (C) is incorrect because <i>329</i> is a composition of the digits in the stem but not a multiple of any of the numbers.
2	D	Multiply and divide with decimals, including decimals less than one and greater than one. (M5N3c)
		The correct answer is Choice (D) \$29.25. Since each U.S. dollar is worth 1.17 Canadian dollars, according to the question, multiply the amount in U.S. dollars by the exchange rate: $$25 \times 1.17 = 29.25 . Choice (A) is incorrect because \$21.36 is the result of $25 \div 1.17$. Choice (B) is incorrect because \$23.83 is the result of $25 - 1.17$. Choice (C) is incorrect because \$26.17 is the result of $25 + 1.17$.
3	В	Add and subtract common fractions and mixed numbers with unlike denominators. (M5N4g)
		The correct answer is Choice (B) $1\frac{7}{12}$ cups. The question asks for the amount of flour left, so subtract the amount used in the recipe from the original amount. The mixed fractions have different denominators, so find the like denominator, which is 12. Rewrite the fractions so that $2\frac{1}{4}$ becomes $2\frac{3}{12}$ and $\frac{2}{3}$ becomes $\frac{8}{12}$. To subtract $\frac{8}{12}$, first rewrite $2\frac{3}{12}$ as $1\frac{15}{12}$. The resulting operation is: $1\frac{15}{12} - \frac{8}{12} =$ $1\frac{7}{12}$. Choices (A) and (C) are incorrect because the original denominators of 3 and 4 were added to find the like denominator rather than being multiplied, giving an incorrect like denominator of 7. Choice (D) is incorrect because it is the result of addition of the two numbers, not subtraction.

Number	Correct Answer	Explanation
4	Α	Apply percentage to circle graphs. (M5N5b)
		The correct answer is Choice (C) 55% . Using the benchmark of 50%, the estimate for the percentage of students that ordered a burrito would be slightly more than the benchmark percentage. Choice (A) is incorrect because it is slightly less than the benchmark of 50%. Choice (B) is incorrect because it is the benchmark of 50%. Choice (D) is incorrect because it is slightly less than the benchmark percentage of 75%.
5	С	Find the area of a polygon (regular and irregular) by dividing it into squares, rectangles, and/or triangles and find the sum of the areas of those shapes. (M5M1f)
		The correct answer is Choice (C) 63 cm ² . Begin by dividing the shape into 2 rectangles (each 9 cm \times 3 cm) and 1 square (3 cm \times 3 cm). To find the area of each rectangle, use the formula $A = bh$, where A is area, b is base, and h is height: 9 cm \times 3 cm = 27 cm ² . To find the area of the square, use the same formula: 3 cm \times 3 cm = 9 cm ² . To find the total area, add the areas of the two rectangles and the square: 27 + 27 + 9 = 63. Choice (A) is incorrect because if the shape is broken down into 7 squares, each 3 \times 3 square has an area of 9, not 3. Choice (B) is incorrect because 54 square centimeters is the area of the two rectangles without the central square. Choice (D) is incorrect because 81 is the result of multiplying 9 \times 3 \times 3, not the sum of the areas of the rectangles and square.

Number	Correct Answer	Explanation
6	D	Compare one unit to another within a single system of measurement. (M5M3b)
		The correct answer is Choice (D) 56 cups . To solve, use the given conversions. Thomas brought 10 quarts and there are 4 cups in each quart. $10 \times 4 = 40$ cups. Lily brought 1 gallon which is the same as 4 quarts. There are 4 cups in each quart. $4 \times 4 = 16$ cups. Combine the cups Thomas brought and the cups Lily brought. $40 + 16 = 56$ cups. Choice (A) is incorrect because it is only the amount that Thomas brought. Choice (B) is incorrect because it is the result of using the conversion of 1 gallon as 4 cups, not 4 quarts. Choice (C) is incorrect because it is the result of converting 1 gallon to 4 quarts but then adding to convert 4 quarts to cups instead of multiplying.
7	С	Compute the volume of a cube and a rectangular prism using formulae. (M5M4d)
		The correct answer is Choice (C) 2,592 in. ³ Use the formula for the volume of a rectangular prism and substitute the values given in the figure: $V = 18$ in. $\times 12$ in. $\times 12$ in. $= 2,592$ in. ³ Choice (A) is incorrect because 1,296 is the area of the base times 6 faces. Choice (B) is incorrect because 1,728 is the result of $12 \times 12 \times 12$. Choice (D) is incorrect because 5,832 is the result of $18 \times 18 \times 18$.
8	A	Students will understand congruence of geometric figures and the correspondence of their vertices, sides, and angles. (M5G1)
		The correct answer is Choice (A). Two figures are congruent if they are exactly the same size and shape, like the two pentagons shown. Choices (B) and (D) are incorrect because the two figures are the same shape but not the same size. Choice (C) is incorrect because the two figures are not the same shape.

Number	Correct Answer	Explanation
9	С	Investigate simple algebraic expressions by substituting numbers for the unknown. (M5A1b)
		The correct answer is Choice (C) 19. Replace the <i>x</i> in the expression with 8, which is the value given for Veronica's age and evaluate: $2x + 3 = 2(8) + 3 = 16 + 3 = 19$. Choice (A) is incorrect because 13 is the result of substituting 8 for <i>x</i> in the expression $2x - 3$. Choice (B) is incorrect because 16 is the result of substituting 8 for <i>x</i> in the expression $2x - 3$. Choice (B) is the result of the expression $2x$. Choice (D) is incorrect because 31 is the result of writing the expression as $28 + 3$ rather than $2(8) + 3$.
10	D	Analyze data presented in a graph. (M5D1a)
		The correct answer is Choice (D) Twice as many CDs were sold in week 3 as in week 1. The graph shows that 200 CDs were sold in week 3 and 100 CDs were sold in week 1. Choice (A) is incorrect because almost 200 CDs were sold in week 4, but only 100 CDs were sold in week 1, so the opposite of the statement is true. Choice (B) is incorrect because 100 CDs were sold in week 1 and 250 CDs were sold in week 2, so less than half as many were sold in week 1. Choice (C) is incorrect because 200 CDs were sold in week 3 and 400 CDs were sold in week 5, so twice as many were sold in week 5.

Chapter 4



Science

By the end of Grade 5, students should offer reasons for findings and consider reasons offered by others. They keep records of investigations and observations and understand why they should not alter records. They use numerical data to describe and compare objects. They use reference books, back issues of magazines or newspapers, and computer databases to locate scientific information. They use the information found in these sources to support statements. Grade 5 students realize that safety is a fundamental concern in all experimental science and follow safety guidelines. They wear goggles any time chemicals, glassware, or heat is used. Grade 5 students investigate scientific concepts. They understand that Science is a process for gaining knowledge about the natural world. Students are active learners and use hands-on activities to discover and explain phenomena. They are able to conduct experiments and report their findings in the form of written reports, charts, and various other presentations including multi-media projects. Their scientific explanations emphasize evidence and begin to use scientific principles, models, and theories. They will convert the fractions (halves, thirds, fourths, fifths, tenths, and hundredths) to decimals in scientific calculations. They identify the largest and smallest possible value of something. Grade 5 students use cameras and tape recorders to gather and record information.

The following Science activities focus on some of the concepts that are assessed on the Grade 5 CRCT Science domains. These domains are as follows:





Physical Science

3 Life Science

The Characteristics of Science skills are integrated throughout the domains. These skills are co-requisites for understanding the content of each science domain.

Characteristics of Science refer to understanding the process skills used in the learning and practice of Science. These skills include testing a hypothesis, record keeping, using correct safety procedures, using appropriate tools and instruments, applying Math and technology, analyzing data, interpreting results, and communicating scientific information. Characteristics of Science also refer to understanding how science knowledge grows and changes and the processes that drive those changes.



Activities



• Earth Science

Georgia Performance Standard S5E1

Within the Earth Science domain, students are expected to identify surface features of Earth caused by constructive and destructive processes. These include, but are not limited to, volcanoes, earthquakes, erosion, and weathering. Students should also be able to relate the role of technology and human intervention to the control of constructive and destructive processes.

The following activities develop skills in this domain:

- To understand the mechanisms of weathering and erosion, students will perform hands-on activities and relate what they have learned to Georgia landforms. Students will fill a plastic bottle to the top with water, put on the cap, and place it in a large, sealed freezer bag overnight. When they observe the bottle the next day, they should find that it has cracked. Students should use Science textbooks or other resources provided by the teacher to answer in their journals: How does freezing water lead to the weathering and erosion seen on the Blue Ridge Mountains? To demonstrate another example of weathering, students will place a piece of chalk or sea shells in a jar and add white vinegar, observing the results. Students should write a response to: How is the demonstration similar to the formation of Georgia's limestone caves (e.g., Ellison's Cave, Byer's Cave, Pettijohn's Cave, Climax Caverns)? Provide photos of these formations or direct students to images on Internet sites.
- In order to understand how deposition forms river deltas, students will work with a model of flowing water and sand. The teacher will assist students in the construction of a two- to three-foot long trough. The trough can be constructed from attached shoeboxes by removing the short ends and covering with aluminum foil, waxed paper, or other water-proofing material. The trough may also be constructed from attached waxed milk cartons. Remove the ends and one side of each carton. Rest the trough on a ramp or platform so that it tilts downward at approximately a 45° angle into a large pan or bucket. Have students place one cup of sand near the top of the trough and pour two liters of water onto the sand. Students will observe how far the sand is transported and record the results. Collect the sand and repeat the procedure several times, each time tilting the trough less and less until it is flat on the ground. Discuss how a shallower tilt causes the water to flow more slowly. Ask, How does the speed of the water affect how far it carries sediment in a river? Students should conclude, from their observations and recorded data, that guickly moving water carries material farther and that a slower flow causes material to be deposited sooner. Discuss how Georgia's Altamaha River, which becomes slower as it nears the ocean, deposits nutrient-rich sediment and forms estuaries.



In order to understand the role of human intervention in natural geological processes, students will explore the issue of beach renourishment (the addition of imported sand) on Georgia's barrier islands. Students should use resources such as an expert or a guest speaker provided by the teacher to learn about beach renourishment on Sea Island and Tybee Island. They should explain the importance of barrier islands to Georgia's coastline and coastal ecosystems. Demonstrate the function of barrier islands by partially filling a tray with sand and tipping it so the sand collects on one side. Gently add water to the sand-free side and generate waves by tapping or tilting the tray. Students should observe that the sand has moved below the waterline. Students will use what they have learned to decide whether beach renourishment should be tried on St. Simons Island. They should then write a persuasive letter explaining their position to the state's Department of Natural Resources—Coastal Resources Division.



Activities



Physical Science

Georgia Performance Standards S5P1, S5P2, and S5P3

Within the Physical Science domain, students will carry out investigations to become familiar with the characteristics of magnetic forces and static electricity. They should have a basic understanding of the conditions that produce magnetic fields in electromagnets and electric currents in simple circuits. Students will gain an understanding of the relationship between magnetism and electricity. Students will learn that batteries are used as energy sources, and flashlight bulbs obtain that energy to become the energy receivers, thereby producing light. Students should explain the difference between chemical and physical changes. They should conduct basic experiments and determine whether matter has changed physically by separating mixtures or chemically by observing changes in the properties of substances before, during, and after a chemical reaction. They should develop a basic understanding of the Law of Conservation of Matter.

The following activities develop skills in this domain:

- To help students understand that mass is conserved during a chemical change, conduct a two-part experiment with baking soda and white vinegar. First, students will measure the mass of the baking soda and vinegar samples using a balance scale and then combine the substances, following appropriate safety procedures. Students should identify the reaction as a chemical change and should find that the mass of the resulting liquid has decreased. Ask students how they can explain what has happened to the mass that is missing. Next, demonstrate that mass is conserved by showing what happens when the reaction takes place in a sealed container. Prop up a 1-gallon sealable freezer bag so that the bottom corners hang lower than the center. Add 4–5 grams of white vinegar to one corner and 1–2 grams of baking soda to the other corner. Seal the baq. Tilt it so that the baking soda falls into the vinegar; the resulting gas will be trapped in the bag. As an alternative, place the baking soda in a deflated balloon and pull it snuggly over the neck of a bottle containing the vinegar. Raise the balloon so that the baking soda falls into the bottle. Ask students, Were the baking soda and vinegar changed in the reaction? Did the mass of the substances change before and after the reaction? Students should conclude that while the substances involved in the reaction have changed, their mass was conserved. From the mass of the starting and final substances, they should infer the mass of the gas produced. Students should write a report on their observations.
- Students will explore static electricity by examining the interactions between similarly- and oppositely-charged objects. Students will rub a balloon on their hair. This will make their hair move toward the balloon. Students should do the same with a second balloon, and bring it close to the first. The two balloons will repel each other. Students should conclude that similarly charged objects repel. Students will charge other objects in the same way:

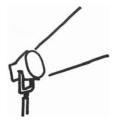


rubbing a glass rod with a silk cloth, or rubbing a hard rubber comb on wool. They should determine whether these attract or repel each other. Students should also test the effect of the charged objects on small pieces of paper, ground pepper, or puffed cereal. They will find that these lightweight substances are attracted to a charged object for a short while. Students should conclude that charging an object has a temporary effect.

Students will reinforce their understanding of how mixtures can be separated through playing a quiz-show game. Create index cards with the following words and/or pictures: water, salt, pepper, sand, oil, iron filings. Students will draw two or more cards at random and must think of a way to separate a mixture made from the substances they chose. Specify materials students can use (e.g., coffee filters, strainers). For example, students may respond, Oil and salt can be separated by letting the salt settle to the bottom and pouring off the oil. Or, Salt and pepper can be separated by adding water and straining out the pepper, then boiling off the water to leave the salt. Students should demonstrate their understanding by brainstorming ways to separate a mixture of all of the materials listed above. Analyze and discuss students' ideas.



Activities



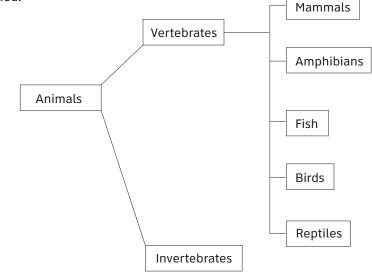
1 Life Science

Georgia Performance Standards S5L1, S5L2, S5L3, and S5L4

Within the Life Science domain, students should demonstrate how plants and animals are sorted into groups (i.e., fish, amphibian, reptile, bird, mammal). They should compare and contrast the characteristics of learned behaviors and inherited traits and describe what a gene is and the role genes play in the transfer of traits. Students should explain how magnifiers such as microscopes or hand lenses are used to observe cells and their structure, and students should recognize and determine the functions of plant and animal cell structures (i.e., cell membrane, cell wall, cytoplasm, nucleus, chloroplasts). They will distinguish between the structure and function of cells in multi-celled organisms and singlecelled organisms. Students will identify beneficial microorganisms and explain why they are beneficial, and students will identify harmful microorganisms and explain why they are harmful.

The following activities develop skills in this domain:

To better understand how scientists classify living things, students will observe, record, and classify the animals found in an area. Students should observe at least 10 creatures that are not household pets (e.g., birds, squirrels, beetles, worms). They will record their observations in a notebook or computer file. Encourage students to take photos or videos of what they observe, find images in magazines or on the Internet, or draw what they see. This activity provides a good opportunity to examine tiny soil organisms using a microscope or hand lens. Students should research how the organisms are classified as invertebrate or vertebrate, and whether they fit into a group such as fish, insect, amphibian, reptile, bird, or mammal. As an end goal, students should create a large poster with names, descriptions, and images of the animals they observed; the poster should show how the animals are classified.



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To understand how some traits are inherited, students will explore several different physical traits that are easily observed in classmates. The teacher will have students make a chart with traits (some possibilities include tonguerolling, attached earlobes, widow's peak, cleft chin) in the first column, then a column for "yes" and a column for "no". Students will collect data from fellow classmates. Once data is collected, the teacher will have students share data as a class. The teacher will lead a discussion on the difference between dominant and recessive traits and how a person receives a trait such as tongue rolling. The teacher will explain that dominant traits typically are more common in the population (though that is not always the case). The teacher will ask each student to collect data on a chosen trait from any biological relatives available to help show how the trait passes from one generation to the next. Each student may create a family tree for a chosen trait to show how it passes within their family. As an alternative to using family members, the teachers may ask students to use the Internet to observe how a trait passes. The teacher may choose to use a famous or well-known family that has a single gene condition such as cystic fibrosis or sickle cell anemia to demonstrate how a trait passes from one generation to the next.

.....

- Creating a three-dimensional model of a cell will help students understand the structure and function of cells and compare and contrast cells of different organisms. Students will make a model animal cell using gelatin for the cytoplasm and a piece of candy, fruit, or vegetable for the nucleus. Prepare a light-colored gelatin using 25% less water than the recipe calls for, and allow it to begin setting after pouring it into a resealable plastic bag, which represents the cell membrane. Students will open the bag to insert the other ingredients into the gelatin before it has completely set. They should explain the functions of the cell membrane, cytoplasm, and nucleus. Students should then come up with materials to make a model plant cell (which also contains chloroplasts and a cell wall).
- To understand the good and bad effects of microorganisms, students will inquire about everyday things people do or make because of microorganisms. Students will keep a journal in which they explore and answer the following questions, using information gathered through hands-on inquiry or resources provided by the teacher (such as a textbook or other reference book).
 - Do you wash your hands before eating and after using public transportation or visiting a crowded mall? Why can doing this keep you from getting sick?
 - Do adults in your home keep raw meat from touching other things in the kitchen? Have you ever been told to not eat uncooked batter or cookie dough that contains raw eggs? Why do these practices keep you safe?
 - Do you try to brush your teeth regularly? Have you been told you might get cavities if you don't brush or if you drink many sugary drinks? Why is this so?

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 Have you ever made bread or seen someone make bread? Why is yeast used in making bread? Have you eaten yogurt, kimchi, blue cheese, or sauerkraut? How are microorganisms such as yeast or bacteria used in making these foods?

 Have you or anyone you know ever had "stomach problems" after taking antibiotics (drugs that kill bacteria)? What is the function of the good bacteria that live in our large intestines?



1 Which microorganism is helpful in making foods like yogurt

- and pickles?
- A bacteria
- B fungus
- C parasite
- D virus
- 2 Which method would be MOST effective for separating a mixture of water, sand, and iron filings?
 - A Filter the iron filings from the water and sand, and then boil off the water to leave the sand.
 - B Filter the sand from the water and iron filings, and then boil off the water to leave the iron filings.
 - C Filter the sand and iron filings from the water, and then use a magnet to separate the iron filings from the sand.
 - D Filter the sand and iron filings from the water, and then heat the mixture to separate the iron filings from the sand.
- 3 Kevin is studying vertebrates and invertebrates. He uses a list he finds in his science book to sort animals into these groups.

Which of these animals is an invertebrate?

- A fly
- B frog
- C rabbit
- D shark
- 4 During a cooking demonstration, a chef dissolves 100 grams of sugar by stirring it into 1000 grams of hot water.

How much will the sugar and water solution weigh after the sugar is dissolved?

- A 900 grams
- B 1000 grams
- C 1100 grams
- D 2000 grams

5 Which part of a plant cell uses energy from sunlight to help it make food?

- A nucleus
- B cytoplasm
- C chloroplast
- D cell membrane

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6 Which statement describes a way that an amagha a single called

6 Which statement describes a way that an amoeba, a single-celled organism, is similar to a skin cell found in a multi-celled organism?

- A Both kinds of cells need a way to reproduce.
- B Both kinds of cells need blood vessels to provide nutrients.
- C Both kinds of cells can move from place to place without help.
- D Both kinds of cells can be specialized to perform certain functions.

7 Which surface feature was made by a destructive process?

- A mountain
- B river delta
- C sand dune
- D river valley
- 8 José uses wire, a battery, and a light bulb to make an open electrical circuit. One at a time, he places different objects so that they close the circuit. He observes what happens when the circuit is closed to determine which objects conduct electricity.

Which of the objects José tests is an electrical conductor?

- A metal pin
- B plastic bag
- C rubber ball
- D wood block
- 9 David watches a burning candle to determine if a chemical change is taking place. While he watches the candle, he writes down observations in his notebook.

Which of David's observations proves that a chemical change is taking place?

- A The candle is getting shorter.
- B The candle is giving off light as it burns.
- C The wax is changing from a solid to a liquid.
- D The wax is running down the side of the candle.



10 A scientist uses a seismograph to study the seismic waves that are produced by earthquakes.

Which of these can most likely be determined by studying seismic waves?

- A the location of the earthquake's epicenter
- B the dates when future earthquakes will happen
- C if a tsunami will be produced by the earthquake
- D if a future earthquake will happen at the same location



Solutions

Number	Correct Answer	Explanation
1	Α	Identify beneficial microorganisms and explain why they are beneficial. (S5L4a)
		The correct answer is Choice (A) bacteria . Beneficial bacteria carry out fermentation to make foods such as yogurt and pickles. Choice (B) <i>fungus</i> is incorrect because fungi such as yeast are used to make bread, not yogurt and pickles. Choices (C) <i>parasite</i> and (D) <i>virus</i> are incorrect because these are harmful, not beneficial, organisms, and they are not used to make food.
2	C	Investigate physical changes by separating mixtures and manipulating (cutting, tearing, folding) paper to demonstrate examples of physical change. (S5P2a)
		The correct answer is Choice (C) Filter the sand and iron filings from the water, and then use a magnet to separate the iron filings from the sand. Choices (A) and (B) are incorrect because iron filings are similar in size to sand particles and therefore cannot be separated with a filter. Choice (D) is incorrect because sand and iron melt only at extremely high, dangerous temperatures; using a magnet is a much easier way to separate the two materials.
3	A	Demonstrate how animals are sorted into groups (vertebrate and invertebrate) and how vertebrates are sorted into groups (fish, amphibian, reptile, bird, and mammal). (S5L1a) The correct answer is Choice (A) fly . Choices (B), (C), and (D) are incorrect because they each name a vertebrate
		animal.

Number	Correct Answer	Explanation
4	C	Demonstrate that the mass of an object is equal to the sum of its parts by manipulating and measuring different objects made of various parts. (S5P1a)
		The correct answer is Choice (C) 1100 grams. When the sugar and the water are combined, their masses remain the same and add up to equal the mass of the solution. Choice (A) is incorrect because <i>900 grams</i> results from subtracting, not adding, the masses. Choice (B) is incorrect because <i>1000 grams</i> is the mass of the water alone and does not include the mass of the sugar. Choice (D) is incorrect because <i>2000 grams</i> is twice the mass of the water and does not represent the combined masses of the water and sugar.
5	С	Identify parts of a plant cell (membrane, wall, cytoplasm, nucleus, chloroplasts) and of an animal cell (membrane, cytoplasm, and nucleus) and determine the function of the parts. (S5L3b)
		The correct answer is Choice (C) chloroplast. Chloroplast refers to the organelle in which photosynthesis occurs. Choice (A) nucleus is incorrect because the nucleus controls all cell activities but is not the site at which food is made in plant cells. Choice (B) cytoplasm is incorrect because cytoplasm is the jelly-like substance that all internal cell organelles float in. Choice (D) cell membrane is incorrect because the cell membrane forms the outer boundary of the cell and is responsible for the movement of substances into and out of the cell.
6	Α	Explain how cells in multi-celled organisms are similar and different in structure and function to single-celled organisms. (S5L3c)
		The correct answer is Choice (A) Both kinds of cells need a way to reproduce. Choices (B) and (D) are incorrect because they are only true for the skin cell of a multi-celled organism. Choice (C) is incorrect because it is only true for the amoeba, a single-celled organism.



Number	Correct Answer	Explanation
7	D	Identify and find examples of surface features caused by destructive processes. • Erosion (water, rivers and oceans, wind) • Weathering • Impact of organisms • Earthquake • Volcano (S5E1b)
		The correct answer is Choice (D) river valley . A river valley is made when water in the river erodes the land under and around it by carrying particles downstream. Choices (A), (B), and (C) are incorrect because they each describe surface features made by constructive processes.
8	Α	Investigate common materials to determine if they are insulators or conductors of electricity. (S5P3c)
		The correct answer is Choice (A) metal pin. A <i>metal pin</i> will conduct electricity and cause the bulb to light. Metal is good conductor of electricity. Choices (B) plastic bag, (C) rubber ball, and (D) wood block are incorrect because they are all made of materials that do not conduct electricity.
9	В	Investigate the properties of a substance before, during, and after a chemical reaction to find evidence of change. (S5P2c)
		The correct answer is Choice (B) The candle gives off light as it burns. Choices (A), (C), and (D) are incorrect because they each describe a physical change, not a chemical change.
10	Α	Relate the role of technology and human intervention in the control of constructive and destructive processes. (S5E1c)
		The correct answer is Choice (A) the location of the earthquake's epicenter. Choices (B), (C), and (D) are incorrect because they cannot be determined by studying seismic waves.

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Social Studies

Chapter 5



Social Studies

In Grade 5, students continue their formal study of United States history. As with Grade 4, the four domains (History, Geography, Government/Civics, and Economics) are fully integrated. Students study United States history beginning with the Civil War and continue to the present. The Geography domain emphasizes the influence of geography on U.S. history. The Civics domain emphasizes concepts and rights as outlined in amendments to the U.S. Constitution. The Economics domain addresses the elements of personal budgeting and spending and uses material from the History domain to extend understanding of economic concepts.

The Social Studies activities focus on some of the topics that are assessed on the Grade 5 CRCT Social Studies domains. These domains are as follows:





- **Government/Civics**
- 4 Economics

Chapter Five Social Studies

Activities



History

Georgia Performance Standards SS5H1, SS5H2, SS5H3, SS5H4, SS5H5, SS5H6, SS5H7, SS5H8, and SS5H9

Grade 5 continues students' study of the history of the United States. The History domain provides students with the recent history of the United States from the Civil War to the present. The History domain also examines how specific historical events prior to modern times shaped the country. Throughout the History domain, students will examine many of the important events and people who influenced modern times, from the Civil War and Reconstruction through changes of life in America at the turn of the 20th century, through both World Wars to Vietnam, the Civil Rights Movement, and the United States' increasing presence around the world. Historical discussion continues with an examination of the importance of key 20th- and 21st-century people, events, and developments. The goal in the History domain is for students to begin to understand the people and major events that have shaped the modern era.

The following activities develop skills in this domain:

Students will analyze some main features of the New Deal by creating a bowl of alphabet soup. Post a blank map of the United States within a drawing of a soup bowl. Introduce the activity by posting the following quote on the board or chart paper: "I pledge you, I pledge myself, to a new deal for the American people." -Franklin Roosevelt. Students will suggest what the soon-to-be President was promising. Guide the discussion with a reminder of what the Great Depression was and how it affected millions of Americans. Students will conclude that many Americans became unemployed. Discuss what students would do to provide jobs if they were President. Assign groups of students one of President Roosevelt's ideas: the Civilian Conservation Corps, the Works Progress Administration, or the Tennessee Valley Authority. Groups will create informational cards about their assignments. Students' research will include the discovery of the acronym for their program. Each group will place their acronym in the soup bowl. Next, the informational cards will be connected by string to their respective acronyms, and, if appropriate, to a particular location on the blank United States map. For example, the Tennessee Valley Authority specifically affected the basin of the Tennessee River. Conclude the activity by selecting various informational cards and discussing why each one describes a significant part of the New Deal. For example, the TVA modernized the area's economy, the CCC employed workers to improve many national parks, and the WPA employed more than 3,000,000 people and built roads and airport fields. Include in the discussion how the students' suggestions may have mirrored what the New Deal did.



Students will describe and explain events regarding major world conflicts of the 20th century by creating an informational diagram. On the board, place a strip of paper to be used in an informational timeline and tree diagram. Label the paper from left to right: World War I, World War II, and Cold War. Prepare a set of ten 3 x 5 cards with following: sinking of the Lusitania, Pearl Harbor, Iwo Jima, D-day, V-E Day, V-J Day, the Holocaust, Berlin Airlift, the Korean War, and NATO. Provide the class with a time frame for each card and have a student place a card under the correct time period. As a class, prepare several informational cards for each event. Use grade-appropriate materials and websites (edu, .gov, or .org) to ensure that each card includes an explanation, description, and/or factual information about the event. Collect the cards, and randomly choose a card to read to the class. Discuss why the card belongs under a particular event. Continue until all cards have been placed correctly. Review the information over the course of the unit by occasionally rearranging several cards. Have the class identify which cards have been misplaced and explain why they belong under a different event.

- Students will work in groups to make a collective classroom scrapbook of the important figures in U.S. history listed in the following table:

Time Period	Individuals that need in-depth research (green paper pages)	Individuals that need only a general overview (yellow-paper pages)
Civil War	Their roles during the Civil War Abraham Lincoln Robert E. Lee Ulysses S. Grant Jefferson Davis Thomas "Stonewall" Jackson	
Turn of the 20th Century	Their impact on American life Wright Brothers (flight) George Washington Carver (science) Alexander Graham Bell (communications) Thomas Edison (electricity)	
Turn of the 20th Century	Their effect on America's role in the world William McKinley (expansionism) Theodore Roosevelt (Panama Canal and expansionism)	
The 1920s	Their contributions and developments Louis Armstrong (Jazz Age) Langston Hughes (Harlem Renaissance) Babe Ruth (baseball) Henry Ford (automobile) Charles Lindbergh (airplane)	
The 1930s	Their cultural contributions Duke Ellington (music) Margaret Mitchell (writing) Jesse Owens (sports)	

Time Period	Individuals that need in-depth research (green paper pages)	Individuals that need only a general overview (yellow-paper pages)	
1940s — World War II	Their changing roles Rosie the Riveter Tuskegee Airmen	Who were Franklin D. Roosevelt Josef Stalin Winston Churchill Emperor Hirohito Harry S. Truman Benito Mussolini Adolf Hitler	
Civil Rights and the Cold War	The impact of the assassinations of John F. Kennedy Robert F. Kennedy Martin Luther King, Jr.	Who were Joseph McCarthy Nikita Khrushchev	

Assign groups of students one of the seven time periods listed on the preceding chart. Count the two "Turn of the 20th Century" groups as different assignments. Group size may vary as some of the individuals will require in-depth descriptions, while others only will need to be identified. For example, students need to know specific details about Abraham Lincoln and his role in the Civil War, while they only need to identify Nikita Khrushchev as the leader of the Soviet Union during the Cold War. Groups will gather information about their individuals using appropriate grade-level materials and websites (.edu, .gov, or .org). Ensure that students focus on parenthetical information for those individuals requiring in-depth research. Students will create a scrapbook page for each individual. Pages of the book will be color-coded according to the table. Pages will include pictures or reproduced images of the individuals and information about their contributions or their identities. Once all the pages are complete, the groups will give presentations to the class about each of their individuals. Bind all the pages together into a study guide scrapbook. Make the book available as a reviewing tool or as a source for creating informational games and discussions.

To better understand the Civil Rights movement, students will hold a forum highlighting important events and individuals in the movement. First students will choose one of the following Civil Rights leaders or key events in the movement during the 1950s and 1960s: *Brown v. Board of Education*, Montgomery Bus Boycott, the March on Washington, Civil Rights Act, Voting Rights Act, Thurgood Marshall, Rosa Parks, or Martin Luther King, Jr. Make sure that all events and individuals have been chosen by at least two students. Students will briefly explain why they have chosen a particular event or individual. Students will then research, using grade-appropriate materials and websites (edu, .gov, or .org), key information regarding their events or individuals. Students will record their research on informational cards. All students who picked the same leader or event will form a study group and share research to create a master list of information and present

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their master list to the class. A forum will follow. Study groups will explain why the information they gathered was important to the Civil Rights movement, and the remainder of the class will have the opportunity to ask questions about the information. Record any questions that study groups were unable to answer, and guide a discussion regarding these answers. Students will explain how they believe these individuals and events of the Civil Rights movement have impacted their lives today.

Chapter Five Social Studies

Activities



2 Geography

Georgia Performance Standards SS5G1 and SS5G2

The Geography domain of Grade 5 Social Studies introduces students to important physical features and man-made places in the United States. Students will also interpret the impact of geography on economic development. This domain will help students better understand the relationship of geography to industrial location, the dispersion of the primary economic activities, and how the United States emerged from World War I as a world power. Students should be able to analyze and evaluate the role of geography, both physical and human, in shaping the United States.

The following activities develop skills in this domain:

- To help students locate important natural physical features of the United States, they will choose and locate three examples of interest, label these sites on a map, and prepare a persuasive argument for visiting the locations. On chart paper entitled "Field trip sites recommended by the Georgia Peach Tourist Bureau," list the following physical features: Grand Canyon, Salton Sea, Great Salt Lake, and Mojave Desert. Next students will plan a field trip from their hometowns to three of the four sites. Students will research the locations of the sites and place them on a map of the U.S. Students will research the importance of each location, using grade-appropriate materials and websites (.edu, .gov, or .org). For example, the ever-changing Grand Canyon includes rocks that are two billion years old; the Salton Sea is the largest lake in California and a route for major bird migration; the Great Salt Lake is a source for our table salt and near a monument marking the end of the 1,300-mile Mormon Trail; and the Mojave Desert is home to gold mines, ghost towns, and singing sand dunes. From the information they gather, students will plan their trip itineraries. The itineraries will explain which sites will be visited, in what order they will be visited, and the reason for visiting each site. Finally students will use their research to create postcards that highlight the importance of each site they visited. Students should fill out these postcards to share their experiences with friends or family.
- Students will better understand the reasons that certain economic activities were located in specific regions of the United States between the end of the Civil War and 1900 by participating in a class discussion and completing informational maps. Discuss the meaning of "economic activity", including in the discussion agriculture, industry, and activities in the community. As a class, decide upon a definition of "economic activity." Next brainstorm what activities may have occurred in the United States from 1860 to 1900. Use grade-appropriate websites (.edu, .gov, or .org) and informational materials to verify the class' suggestions. On the board or chart paper, list the major economic activities in the South, the North, the Midwest, and the West. Distribute blank outline maps of the United States. Decide upon key symbols

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for the major agricultural and industrial activities. Students will use the key to complete an economics map.

Next discuss reasons why certain economic activities are performed in some places and not others. Include in the discussion:

- How would the number of people and the location of the population affect economic activity?
- How would available resources affect where economic activity takes place?
- What are the methods of transportation? And how would these methods affect economic activity?

This activity can be used in conjunction with Geography activity 4 to compare maps of the same places at different points in time in order to determine changes, trends, and human activity. Keep in mind the need for consistent key symbols for the ease of making comparisons.

- To help students locate historically important United States cities and other man-made locations, they will each identify two locations of interest. Students will choose from the Chisholm Trail, Pittsburgh, PA, Gettysburg, PA, Kitty Hawk, NC, Pearl Harbor, HI, and Montgomery, AL. Next students will find each location on a map of the U.S. Students will research the locations they have chosen, identifying and explaining each site's importance during the time period in which it became a prominent part of U. S. history. Students should create a compare/contrast chart including all of the information they have gathered, indicating the similarities and differences of the two chosen locations. After a discussion of all the sites by the class, each student will rank the six sites in the order of importance based on the events in American history that took place there. Students will write a paragraph defending their rankings of the sites.
- Students will better understand the factors affecting economic activity and the location of agriculture and industry in specific regions of the United States since 1900 by participating in a class discussion and completing informational maps. Discuss and/or review the meaning of "economic activity," including in the discussion agriculture, industry, and activities in the community. As a class, decide upon a definition of "economic activity." Next, brainstorm the activities that may have occurred in the United States since 1900. Use grade-appropriate websites (.edu, .gov, or .org) and informational materials to verify the class' suggestions. On the board or chart paper, list the major economic activities for each geographical region. Distribute blank outline maps of the United States. Decide upon key symbols for the major agricultural and industrial activities. Students will use the keys to complete an economics map. Next discuss reasons why certain economic activities are performed in some places and not others. Include in the discussion:



- How would the number of people and the location of the population affect economic activity?
- How would available resources affect where economic activity takes place?
- What are the methods of transportation? And how would these methods affect economic activity?

This activity can be used in conjunction with Geography activity 2 to compare maps of the same places at different points in time in order to determine changes, trends, and human activity. Keep in mind the need for consistent key symbols for the ease of making comparisons.



Activities



3 Government/Civics

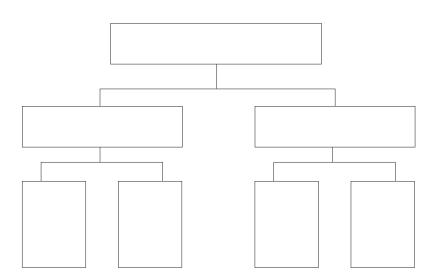
Georgia Performance Standards SS5CG1, SS5CG2, SS5CG3, and SS5CG4

Within the Government/Civics domain of Grade 5 Social Studies, students will learn to explain the responsibilities and freedoms of citizens. Students will understand due process of law and demonstrate understanding of its connection to the Constitution and citizen's rights. Students will also explore and explain the purpose of the amendment process, the relationship between Constitutional amendments and our representative democracy, and the impacts of particular amendments on citizens of our society.

The following activities develop skills in this domain:

To help students understand the freedoms granted to them by the Bill of Rights, they will name and describe amendments to the Constitution. First list the following amendments and information on chart paper: First Amendment: the freedoms of speech, religion, the press, assembly, the right to petition; Second Amendment: the right to keep and bear arms; Third Amendment: protection from the guartering of troops; Fourth Amendment: protection from unreasonable search and seizure; Sixth Amendment: trial by jury; and Eighth Amendment: prohibition of excessive bail and cruel and unusual punishment. Next, quide a discussion of the meaning of each amendment. Reinforce the meanings with historical examples or current events. Then each student will choose one amendment and write a brief essay about his or her interpretation of the freedom(s) it grants or, in the case of the Third Amendment, the protections it quarantees. Student essays will include everyday examples of citizens exercising these rights or living under these protections. Each student will include a specific example of the influence of his or her chosen amendment on his or her life or community. Finally, students will complete a graphic organizer that will illustrate possible arguments for and against his or her chosen amendment.





- Students will better understand why the Framers of the Constitution set up a method for amending the Constitution, as well as the amendment process itself, by participating in a class discussion and proposing their ideas for amendments. As a class, discuss what students understand the amendment process to mean. Inform students that the Constitution has been amended in the past. Focus on the reasons the Constitution has been amended by using the following examples of previous Constitutional amendments: the freedoms granted in the Bill of Rights, the protection of voting rights, and maintaining a representative democracy through the 12th and 17th Amendments. Explain the amendment process and have students suggest reasons for the various steps within the process. Students will conclude by suggesting proposals for their own amendments to the Constitution.
- Students will demonstrate a better understanding of the development of voting rights in the United States over time by researching voting rights and creating a flowchart to highlight these events. The flowchart should also illustrate which new groups were added to the voting rolls with each amendment and why or why not those groups actually gained suffrage (voting rights). The teacher will begin the activity by explaining that when the Constitution was ratified in 1788, most states only allowed adult white males who owned property to vote. This should be the starting point for their flowcharts. Students will then research the 15th, 19th, 23rd, 24th, and 26th Amendments, each of which changed voting rights. They should incorporate each amendment in the flowchart, illustrating why they believe it was important to add the amendment to the Constitution, along with the new groups added to the voting rolls by each. After completing the flowchart, students will write an essay comparing voting rights from 1788 to the present, explaining why they believe each amendment was necessary, and describing specific examples of impacts on our society.

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The activity will conclude with a class discussion of current voting trends. The discussion will include students' suggestions about why people vote and why some people choose not to vote.

- Students will explain the responsibilities of a citizen through a class discussion about their actions and the actions of others in their community. Begin the activity by having the class define "citizen" and compile a list of what they believe a citizen's responsibilities might be. List the students' suggestions on the board or chart paper. Make sure that the list includes the following:
 - Respecting the rights and property of others
 - Taking part in voting and the voting process
 - Practicing trustworthiness
 - Practicing honesty

Continue the class discussion until students develop an understanding of each listed suggestion. Next, assign the suggestions to groups of students, ensuring that all suggestions are covered. Each group will list how its members have demonstrated the group's assigned responsibility. For example, students may have returned a lost object to its owner or voted in a school election. Groups will share their lists with the entire class. Then, using local newspaper articles, interviews of family and community members, and other appropriate, available materials, groups will collect examples of citizenship by others in the community. Finally, the class will create a citizenship montage (pictures and words) on chart or poster paper about their discussions and research.

Chapter Five Social Studies

Activities



4 Economics

Georgia Performance Standards SS5E1, SS5E2, SS5E3, and SS5E4

Throughout the Economics domain of Grade 5 Social Studies, students will build upon previously learned concepts. The Economics domain will emphasize an analysis of how economics affects historical events, society, and individuals. By the end of Grade 5, students should understand basic economic concepts and their political and social impacts. Students will demonstrate the understanding of how economic entities function in the market and how consumers and businesses interact. Student will also understand how economics affects individuals and why personal spending and saving decisions are important.

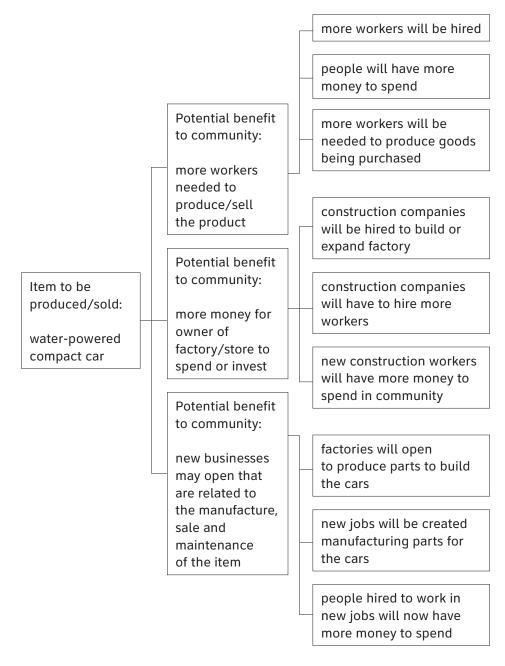
The following activities develop skills in this domain:

- Students will learn how consumers and businesses interact in the United States, by playing an economics card game and describing the effect new businesses may have on their community. Discuss and define "competition," "income," and "entrepreneur." Prepare twenty 3 x 5 index cards, each with a possible new business that could open in the community. Ensure that some new businesses would be unique in the community and that others would have competition. Tell students that twenty new businesses are going to open in their community. Distribute a card to pairs of students. On the reverse side of their cards, students will describe the various types of labor that could be done, at the new business, for a person to earn income. Each pair will read their income-earning suggestions, and the rest of the class will guess what new goods or services the entrepreneur is going to provide. List the correct responses on the board or chart paper. Conclude the activity with a class discussion of what effect each new business could have on competition, prices, and purchasing behavior. The discussion will include but not be limited to the following:
 - Several of the same businesses may cause lower prices.
 - Several of the same businesses may cause people to "shop around."
 - Several of the same businesses may cause one or more of them to close.
 - New jobs may increase people's buying.
- To better understand how trade can promote economic activity, students will develop a tree-style flowchart illustrating the positive effects trade can have on a community, state, or country. As a class, discuss the flowchart example below. Explain how the flowchart demonstrates the expanding benefits of a water-powered car. Students will also suggest the negative consequences of a water-powered car. These examples could be lost jobs in the gasoline industry or increased traffic due to inexpensive fuel. Next group students in teams of two. Assign each team a product that will be manufactured locally and sold to consumers in the community. Distribute a blank tree-style flowchart, like the one that follows, to each team. Teams will

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identify their products and three potential benefits—for the manufacturer, the retail store that sells it, or the consumer—of the production and sale of this product. The flowchart will then be expanded from three benefits for the community to include nine benefits for the state and the country. After completing this flowchart with positive outcomes of trade, the class will brainstorm for possible negative outcomes of increased production and sales of their products on the community and the world. Ideas may include lost jobs in competing industries, elimination of farm land for factories, and increased use of natural resources.



- To help students better understand the benefits and potential negative aspects of checking accounts, savings accounts, and loans, they will participate in a money-managing simulation. The simulation will require students to keep a running register of their finances. Over a period of at least five days, students will be given a daily income to record in their simulated checkbooks. Teachers or students can find samples on the Internet to print for the simulation. They will also be required to write checks to pay bills. All students will be given bills for food, utilities, and housing that they will be required to pay on a daily basis. In addition to these set bills, the teacher will randomly assign an unexpected expense to each student. The unexpected bills that each student must pay will be randomly selected by the teacher from a container filled with possible bill topics and bill amounts. Because unexpected bills will be chosen at random, students may be forced to take out a personal loan to cover these expenses. Students may also find themselves responsible for making payments on the loan and the interest it accrues. To earn extra income, students may open an interest-bearing savings account. Set the simple interest (money put into the account multiplied by the daily interest rate multiplied by the number of days) that can be earned. At the end of the simulation, each student will determine and explain the balances of their finances.
- Students will learn about the functions of private businesses, banks, and government agencies by conducting interviews, research, and other information-gathering activities. As a class, compile a listing of private businesses, banks, and government agencies in the community or surrounding area. Use the phone book, Internet, or local advertising and public service announcements to gather this information. Post the compiled information on three charts, one chart for each institution, and discuss the function of each. Guide the discussion to include the fact that, typically, businesses provide consumer goods and services, banks provide financial services, and the government collects taxes to provide public goods and services. Assign each student a specific institution from one of the charts. Each student will compile a list of questions that they would like ask about their assignment. For example:
 - What does your business do?
 - What types of goods or services does it provide?
 - How does it sell these goods or services?
 - What is the function of the bank?
 - How do people get checking accounts, savings accounts, and loans?
 - How does the government get the money it needs to do things?
 - What services does the government provide for the people?



Students will plan ways to gather information about their assignment. If possible, students may conduct interviews with members or workers of their assigned institutions. Students may write letters requesting information, pamphlets, and brochures. Students may use grade-appropriate websites (.edu, .gov, or .org) to gather information. Each student will produce a poster, report, or chart describing the functions of his or her particular institution. Conclude the activity with a discussion about the similarities and differences among businesses, among banks, and among government agencies.

Chapter Five **Social Studies**

Practice Quiz

1 Which of these describes Jefferson Davis's role during the Civil War?

- A He wrote Uncle Tom's Cabin.
- B He led the raid on Harper's Ferry.
- C He was a general in the Union Army.
- D He was president of the Confederacy.

2 Which of these was the main purpose of the 13th Amendment?

- A to raise taxes
- B to end slavery
- C to provide a trial by jury
- D to list the duties of the president
- 3 Why did President Theodore Roosevelt want to complete the building of the Panama Canal?
 - A to stop the spread of disease in Central America
 - B to create a shorter route between the Atlantic and Pacific oceans
 - C to provide employment for thousands of Columbian workers
 - D to make it easier to travel from North America to South America

4 Which of these describes the poetry of Langston Hughes?

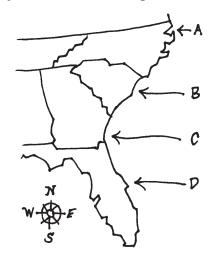
- A It remembers and honors World War I soldiers.
- B It praises the opportunities given to immigrants.
- C It describes the unequal treatment of African-Americans.
- D It explains why Native Americans moved onto reservations.

5 Which describes a result of the Battle of Iwo Jima?

- A The ships at Pearl Harbor were attacked.
- B The United States declared war on Japan.
- C The victory led to the eventual defeat of Japan.
- D The power of the atomic bomb was demonstrated.



6 Which letter on the map points to Kitty Hawk, North Carolina, the place where the Wright brothers flew their airplane?



- A A
- B B
- C C
- D D

7 Which of these is a function of the United States government?

- A manufacturing goods in order to make a profit
- B lending money to people so that they can buy cars
- C collecting taxes in order to provide public services
- D providing checking accounts to people so that they can save money

8 Which action is protected under freedom of speech?

- A lying in court
- B telling military secrets
- C writing on public buildings
- D speaking out against the government

9 How did the 26th Amendment increase the number of people who could vote in elections?

- A It lowered the voting age to 18.
- B It introduced electronic voting machines.
- C It let employees leave work early to vote.
- D It provided for neighborhood voting places.



10 How did Henry Ford's introduction of the assembly line in the automobile industry improve the standard of living for Americans?

A Fewer cars looked alike.

- B More people could afford to buy cars.
- C Fewer people were needed to build cars.
- D More cars were imported from other countries.



Solutions

Number	Correct Answer	Explanation
1	D	Describe the roles of Abraham Lincoln, Robert E. Lee, Ulysses S. Grant, Jefferson Davis, and Thomas "Stonewall" Jackson. (SS5H1d)
		The correct answer is Choice (D) He was president of the Confederacy . Jefferson Davis was inaugurated on February 22, 1862, as the first and only president of the Confederacy. Choice (A) is incorrect because Harriet Beecher Stowe wrote Uncle Tom's Cabin to show that slavery was unjust and cruel. Choice (B) is incorrect because John Brown was the leader of the abolitionists' raid on Harper's Ferry. Choice (C) is incorrect because Ulysses S. Grant was a Civil War general in the Union Army while Davis was serving as president of the Confederacy.
2	В	Describe the purpose of the 13th, 14th, and 15th Amendments. (SS5H2a)
		The correct answer is Choice (B) to end slavery . The 13th Amendment abolishes slavery and grants Congress the power to enforce abolition. Choice (A) is incorrect because the creation of income taxes is authorized by the 16th Amendment. Choice (C) is incorrect because it is the 6th Amendment, in the Bill of Rights, that guarantees individuals the right to a trial by jury. Choice (D) is incorrect because the duties of the president are described in Article Two of the Constitution.



Number	Correct Answer	Explanation
3	В	Explain how William McKinley and Theodore Roosevelt expanded America's role in the world; include the Spanish-American War and the building of the Panama Canal. (SS5H3c)
		The correct answer is Choice (B) to create a shorter route between the Atlantic and Pacific Oceans . Completion of the Panama Canal shortened the distance traveled by freighters between New York and San Francisco by 8,000 miles and allowed U.S. navy ships to move quicker between the two oceans. Choice (A) is incorrect because disease is a major reason that completion of the canal took as long as it did. Roosevelt had to authorize the draining of swamps and the cleanup of areas that were breeding grounds for insects that carried disease. Choice (C) is incorrect because, while building the canal provided jobs for the people of the area, it was not Roosevelt's reason for building the canal Choice (D) is incorrect because the canal was not intended to speed travel between the continents of North and South America, but to speed travel between the east and west coasts of the United States.
4	C	Describe the cultural developments and individual contributions in the 1920s of the Jazz Age (Louis Armstrong), the Harlem Renaissance (Langston Hughes), baseball (Babe Ruth), the automobile (Henry Ford), and the airplane (Charles Lindbergh). (SS5H4b)
		The correct answer is Choice (C) It describes the
		unequal treatment of African-Americans . Langston Hughes was considered a leading voice of the Harlem Renaissance. He condemned injustice and racism while expressing a strong sense of pride in African-American humor, spirituality, and culture. Choices (A), (B), and (C) are all incorrect because the poetry of Langston Hughes did not describe the events of World War I, the lives of a immigrants, or the plight of Native Americans, but rather the black experience.

Number	Correct Answer	Explanation
5	С	Describe major events in the war in both Europe and the Pacific; include Pearl Harbor, Iwo Jima, D-Day, VE and VJ Days, and the Holocaust. (SS5H6b)
		The correct answer is Choice (C) The victory led to the eventual defeat of Japan . The United States was able to use the island as a refueling station. This gave the United States a foothold in the Pacific allowing the eventual triumph over Japan. Choice (A) is incorrect because the Japanese attack on Pearl Harbor took place in December 1941, four years prior to the battle of Iwo Jima. Choice (B) is incorrect because the United States had declared war on Japan back in December of 1941, shortly after the Japanese attack on Pearl Harbor. Choice (D) is incorrect because August 6, 1945—the atomic bombing of Hiroshima—came about five months after the conclusion of the battle of Iwo Jima.
6	Α	Locate important man-made places; include the Chisholm Trail; Pittsburgh, PA; Gettysburg, PA; Kitty Hawk, NC; Pearl Harbor, HI; and Montgomery, AL. (SS5G1b)
		The correct answer is Choice (A). Site A on the map indicates the location of Kitty Hawk, North Carolina. Choice (B) is incorrect because it points to a location in South Carolina. Choice (C) is incorrect because it points to a location in southern Georgia. Choice (D) is incorrect because it points to a location in Florida.
7	С	Describe the government function in taxation and providing certain goods and services. (SSE2d)
		The correct answer is Choice (C) collecting taxes in order to provide public services . The Constitution outlines the government's responsibility to the people. Choice (A) is incorrect because private industry usually manufactures goods for profit, and government agencies are not-for-profit. Choice (B) is incorrect because the government does not lend money to citizens, especially for the purchase of specific items such as cars. Choice (D) is incorrect because, although the government may make payments to individuals, checking accounts are provided by privately owned banks.



Number	Correct Answer	Explanation
8	D	Explain the freedoms granted and rights protected by the Bill of Rights. (SS5CG1b)
		The correct answer is Choice (D) speaking out against the government . The 1st Amendment to the Bill of Rights of the Constitution guarantees citizens the right to freedom of speech. Choices (A), (B), and (C) are examples of expression not guaranteed by the 1st Amendment. Perjury, or lying in court, is a crime in the United States. Telling military secrets is considered a crime as it could compromise national security. Graffiti defaces property and is a criminal offense.
9	Α	Explain how voting rights were protected by the 15th, 19th, 23rd, 24th, and 26th amendments. (SS5CG3b)
		The correct answer is Choice (A) It lowered the voting age to 18 . Passed in 1971, the 26th Amendment to the U.S. Constitution lowered the voting age from 21 to 18 years of age and empowered the Congress to enforce the new law. Choices (B), (C), and (D) are all incorrect because none of these aspects of voting are dealt with in the 26th Amendment. States determine the type of voting machines and the location of polling places. Employers determine whether or not workers may leave early to vote.



Number	Correct Answer	Explanation
10	В	Describe the cultural developments and individual contributions in the 1920s of the Jazz Age (Louis Armstrong), the Harlem Renaissance (Langston Hughes), baseball (Babe Ruth), the automobile (Henry Ford), and the airplane (Charles Lindbergh). (SS5H4b)
		The correct answer is Choice (B) More people could afford to buy cars . The introduction of the assembly line in the automobile industry helped to lower the cost of production, which meant lower prices for automobiles. This made cars more affordable to a larger part of the American population. Choice (A) is incorrect because the assembly line process caused more cars to look alike as they were assembled with identical parts. Choice (C) is incorrect because as a result of the assembly line, cars could be produced faster in the United States, which did not lead to cars being imported from Europe. Choice (D) is incorrect because many workers were involved in the process of building automobiles after the advent of the assembly line.

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