

Sample Booklet **Algebra** I



Lori Mammen **Editorial Director**

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For more than two decades, we have helped you achieve student success on Texas tests by providing the highest quality test-prep materials. With STAAR MASTER™, we continue our commitment to create research-based content that engages students and makes teaching easier.

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- All new content with increased rigor
- Emphasis on readiness standards
- Assessment of process skills within context (mathematics, science, and social studies)
- More open-ended (griddable) items (mathematics and science)

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Reflects key characteristics of STAAR[™].

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More open-ended (griddable) items in math and science: *STAAR MASTER* math and science books include more griddable items so students can derive answers independently.

Assessment of process skills within context in math, science, and social studies: *STAAR MASTER* books reflect this important change. For example, most items in the math books assess both a knowledge skill and a process skill, with both skills identified for each item.

Fresh.

Includes brand-new material & strategies.

- Brand-new material in all books
- Range of topics to interest students
- Clear identification of tested skills
- Repeated practice in a variety of contexts
- Master list of standards and expectations
- Correlation charts for selected subjects
- Suggested teaching strategies
- Bibliography of research references
- Complete answer keys
- Clear, consistent layout

Sincerely,

Your ECS Team

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STAAR MASTER®

Student Practice Book Algebra I

for the State of Texas Assessments of Academic Readiness

Teacher Guide



Lori Mammen Editorial Director

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Sample page from STAAR MASTER® Student Practice Book Teacher Guide for Algebra I

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The STAAR MASTER series includes new, challenging on It's what you have come to expect from the most trustee the latest information at ecslearningsystems.com/staarm	content to prepare students for the rigor of the STAAR. d source in Texas testing. Check our Web site often for naster.
As you use <i>STAAR MASTER</i> in your classroom, we hop know:	be to hear from you! Send us your story and let us
• Why you need our product(s)	
• How you use them in your classroom	
• What outcomes and results you are experiencin	ng
At ECS, we strive to provide educators like you with eas easier. We count it as a privilege to have you as a custon exceed your expectations. Please let us know how well the <i>STAAR MASTER</i> mode	sy-to-use and effective materials that make teaching ner, and we hope that our products continuously ucts worked in your classroom. Also, please spread the
word—many of our new customers are referred by teacl	hers like you.
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Your ECS Team p.s. It's easy to share your story! Visit our Re:Think blog at ecslearningsystems.com/blog and click the Re:Tell bu	Re:Tell Have a GREAT STORY or experience from your classroom? > YOUR STOR
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Sample page from STAAR MASTER® Student Practice Book Teacher Guide for Algebra I

The STAAR MASTER® Student Practice Book for Algebra I has 176 pages. The pages in this sample book represent only a portion of the entire workbook. Consumable workbooks–May not be reproduced. Free Teacher Guide included.

Student Practice Book Teacher Guide

What's Inside the Student Practice Book?

The STAAR MASTER[®] Student Practice Book provides practice and review material for the Algebra I portion of the State of Texas Assessments of Academic Readiness (STAAR[™]) End-of-Course (EOC) test.

- The practice items reflect the kinds of problems students might encounter on the actual STAAR EOC assessment.
- The practice items focus on the 2010 STAAR-eligible Algebra I Texas Essential Knowledge and Skills (Texas Education Agency, 2010c) standards.
- Each exercise is labeled for easy identification of the TEKS-based reporting category, standard, and expectation addressed in the practice items.
- Several exercises address the same standard/expectation, providing repeated practice for students in a variety of contexts.
- Selected problems are "griddable items" (*see* Figure 2), which reflects the format used randomly throughout the actual STAAR assessment.

Items in the STAAR MASTER Student Practice Book address the following algebra concepts:

- Functional relationships
- Properties and attributes of functions
- Linear functions
- Linear equations and inequalitiesQuadratic and other nonlinear functions

Exercise Skills Tags

Each exercise is labeled with a "skills tag" (see Figure 1, below) for easy identification of the TEKS-based standard and expectation addressed in the problems.



Griddable Items

In addition to multiple-choice items, STAAR Mathematics EOC assessments will also use openended questions known as "griddable items" (Texas Education Agency, 2010e). This type of assessment question allows students to reach the answer without the influence of given answer choices. The STAAR Algebra I EOC assessment will likely include five griddable items. The answer grid will have eight columns, with a floating decimal point (see Figure 2, below). Correct answers can be positive or negative numbers that range from 0 to 9999999. To indicate their answer, students must appropriately enter the number in the boxes and then fill in the corresponding bubbles. Students will not grid the units (e.g., ft). It is acceptable to grid extra zeroes that do not affect the value of the correct answer.



Figure 2: Griddable Item for Algebra

This Teacher Guide includes—

- an overview of the Student Practice Book and key characteristics of the STAAR program
- descriptions of complexity levels
- strategies for test preparation and mathematics instruction
- a master list of STAAR-eligible standards and expectations addressed in the Algebra I TEKS
- a complete answer key

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Readiness vs. Supporting Standards

The eligible, or tested, TEKS are divided into "readiness standards" and "supporting standards," with greater emphasis on the former. Readiness standards address broader, deeper ideas and are deemed more critical for students to know. Supporting standards address more narrowly defined ideas and will still be assessed, although not emphasized. The STAAR MASTER* Student Practice Book mirrors this balance of readiness and supporting standards to provide meaningful, authentic student practice for the STAAR[™] assessment.

Increased Rigor

The STAAR program is described as "significantly more rigorous" (Texas Education Agency, 2010a) than the Texas Assessment of Knowledge and Skills (TAKS). But what does *rigor* mean in assessment? For the STAAR program, it means the cognitive complexity of items will increase to assess skills at a greater depth. Also, the test will include more griddable items, allowing students to arrive at answers independently through open-ended response. The *STAAR MASTER Student Practice Book* provides items written at varying levels of complexity to accommodate this increase in rigor. (Refer to the "Depth of Knowledge" and "Descriptions of Complexity Levels" sections on this page for more information about the levels of complexity in practice items.)

Alignment

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According to the mandate of No Child Left Behind (2001), states are required to develop assessments that tightly align to their content standards. To ensure that this requirement is met, states and districts often conduct alignment studies. In such a study, an assessment is compared to the state's content standards. If an assessment is rigorous, the study will not yield large disparities between the cognitive demands of the expectations and those of the assessment.

Depth of Knowledge

Norman Webb's (2002a) "depth-of-knowledge" model is currently one of the most influential alignment models in the field of education. "Depth of knowledge" describes the degree of complexity of knowledge a curricular item requires. Webb identifies four levels of depth of knowledge; recall (Level 1), skill or concept (Level 2), strategic thinking (Level 3), and extended thinking (Level 4). Distinct cognitive demands occur during each activity, or thinking process, level.

Descriptions of Complexity Levels

The following descriptions provide an overview of complexity levels. Each explanation details the kinds of activities that occur within each level. However, they do not represent all of the possible thought processes for each level.

Low Complexity

Low-complexity items align with the TEKS at Level 1 of the Webb (2002a) model. Items of low complexity involve recall and reproduction. Activities and problems at this level require routine, single-step methods. An item may ask students to recognize or restate a fact, definition, or term and may require students to follow a basic procedure with clearly defined steps. At this cognitive level, students may need to apply a formula or perform a simple algorithm. A low-complexity item may ask students to identify, recognize, use, or measure information and concepts.

Moderate Complexity

Moderate-complexity items align with the TEKS at Level 2 of the Webb model. Items of moderate complexity involve both comprehension and the subsequent processing of information. Activities at this level demand more than one step in the reasoning process. Students are asked to determine how to best solve the problem. Items may involve using a model to solve a problem. At this cognitive level, students may need to visualize for tasks such as extending patterns and determining nonexamples. Items may involve interpreting information from a simple graph, table, or diagram. Items of this complexity may ask students to classify, organize, observe, collect and display data, or compare data. Some items also require students to apply low-complexity skills and concepts.

High Complexity

High-complexity items align with the TEKS at Level 3 and/or Level 4 of the Webb model*. Items of high complexity require students to use strategic, multi-step thinking; develop a deeper understanding of the information; and extend thinking. The problems at this level are non-routine and more abstract. Students are asked to demonstrate more flexible thinking, apply prior knowledge, make and test conjectures, and support their responses. High-complexity items may require students to make generalizations from patterns and interpret systems of equations. Items may involve interpreting information from a complex graph, table, or diagram. At this cognitive level, students will need to justify the reasonableness of a solution process when more than one solution exists. Students will use concepts to solve and explain problems. A highcomplexity item may ask students to plan, reason,

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explain, compare, differentiate, draw conclusions, cite evidence, analyze, synthesize, apply, or prove. Some items also require students to apply low- and/or moderate-complexity skills and concepts.

*Note: Although state standards may include expectations that require extended thinking, many large-scale assessment activities are not classified as Level 4. Performance and open-ended assessment may require activities at Level 4.

How to Use This Book

Effective Test Preparation

What is the most effective way to prepare students for any mathematics competency test? Experienced educators know that the best test preparation includes three critical components—

- a strong curriculum that is aligned with the content and skills to be assessed
- effective, relevant, and varied instructional methods that allow students to learn content and skills in many different ways
- targeted practice that familiarizes students with the specific content and format of the test

Obviously, a strong curriculum and effective, relevant, and varied instructional methods provide the foundation for all appropriate test preparation. Contrary to what some might believe, merely "traching the test" performs a great disservice to students. Students must acquire knowledge, practice skills, and have specific educational experiences that can never be included on tests limited by time and in scope. For this reason, resources like the STAAR MASTER® Student Practice Book should never become the heart of the curriculum or replace strong instructional methods.

Targeted Practice

Student Practice Book T<u>e</u>acher Guide

The STAAR MASTER Student Practice Book does, however, address the final element of effective test preparation (targeted test practice). This book familiarizes students with—

- · the specific content of Texas' competency tests
- the general format of competency tests

When students become familiar with both the content and the format of a test, they know what to expect on the actual test. This, in turn, improves their chances for success.

Using STAAR MASTER® Products

Used as part of the regular curriculum, the STAAR MASTER Student Practice Book allows teachers to—

- pretest skills students need for the actual test
- determine students' areas of strength and/or weakness
- provide meaningful test-taking practice for students
- · ease students' test anxiety
- communicate test expectations and content to parents

Other Suggestions for Instruction

The STAAR MASTER Student Practice Book can serve as a springboard for other effective instructional activities that help with test preparation.

Group Work

Teachers and students can work through selected practice exercises together, noting the kinds of problems and range of problem-solving techniques. They should discuss common errors for each kind of question and strategies for avoiding these errors.

Formulating Answers

Teachers may encourage students to use scratch work to formulate their own answers on paper rather than simply using mental math or guessing based on the given answer choices. After solving a problem on their own, students can read the given answer choices and determine which one, if any, matches the answer they have recorded. If they cannot find their solution among the given answer choices, they can refer to their scratch work and determine their error.

Developing Test Problems

Teachers may create additional problems that cover skills in a different way than those provided in the exercises. Teachers and students can also select "testtype" problems from other assigned math exercises.

Developing Fundamental Understanding

Teachers can promote the recognition of mathematics in everyday life by developing problems relevant to students' daily experiences in the classroom and at home. Working through problems that relate directly to students' experiences fosters understanding of underlying processes and mathematical tools.

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Mathematics Vocabulary

To perform their best on any mathematics assessment, students must understand the vocabulary of mathematics. The following list includes many of the mathematics words that students will encounter on the STAAR[™] EOC assessment.

Note: When a vocabulary term is addressed in multiple reporting categories, it is grouped with the reporting category in which it is either emphasized or introduced in the eligible TEKS.

Reporting Category 1:	quantity	scatterplot	Reporting Category 4:
Functional Relationships	ratio	simplify	Linear Equations and
algebraic equation	rational number	solve	Inequalities
algebraic expression	relationship	symbol	algebraic method
amount	represent	term	formula
approximate	results	transform	linear equation
convert	scientific notation	unknown	perspective
coordinate	square root	variable	relative
coordinate grid	table		scale
data	unit rate	Reporting Category 3:	scale model
data set	value	Linear Functions	solution
decimal		attribute	systems of linear equations
denominator	Reporting Category 2:	diagonal	, ,
dependent	Properties and Attributes	dilation	Reporting Category 5:
description	of Functions	direct variation	Quadratic and Other
diagram	associative property	enlargement	Nonlinear Functions
equality	attribute	given	actual
equation	commutative property	intercept	average
equivalent	continuous	intersecting lines	experimental
equivalent fraction	correlation	line	exponential decay
exponent	discrete	linear function	exponential growth
exponential notation	distributive property	number line	horizontal intercept
expression	domaiu	ordered pairs	invalid
fraction	equation noration	parameters	inverse variation
fraction bar	estimate	point	laws of exponents
fractional part	factor	proportional change	nonlinear
function	function notation	rate of change	nonlinear function
functional	generalization	reduction	probability
graph	linear	slope	quadratic equation
grid	needive	transformation	quadratic function
improper fraction	non-proportional	x-axis	root
independent	relationship	r-intercept	vertical intercept
inequality	parent functions	<i>v</i> -axis	vertical intercept
integer	pattern	<i>y</i> -intercept	
interpret	polynomial expression	zeros	
mixed number	positive	20105	
model	property		
number seutence	proportional relationship		
numerator	quadratic		
plane	range		
prediction	rate of change		
quadrant	reasonable		
quauralit	ICASOIIADIC		

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Answer	Key
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Exercise 21			Exercise 39				
1. B	2. C	3. D	1. C	2. A	3. B	4. A	
Exercise 22			Exercise 40				
1. D	2. C	3. D	1. B	2. D	3. A		
Exercise 23			Exercise 41				
1. C	2. C	,	1. B	2. D	3. C		
Exercise 24			Exercise 42				
1. B	2. D	3. D	1. C	2. D	3. A		
Exercise 25			Exercise 43				
1. A	2. C	3. C	1. D				
Exercise 26			Exercise 44				
1. B	2. D	3. D	1. D	2. B	3. C	4. C	
Exercise 27			Exercise 45				
1. B	2. D		1. C	2. B	3. D	4. A	
Exercise 28			Exercise 46				This
1. C	2. D	3. D	1. B	2. D	3. A		pag
Exercise 29							e ma
1. D	2. D	3. B	Reportin	ng Catego	ory 4		n AE
Exercise 30			Exercise 1				ot be

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