


TEA UPDATE ON STAAR MATHEMATICS

TEXAS EDUCATION AGENCY

STUDENT ASSESSMENT DIVISION

FEBRUARY 2017

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- ❑ Overview of Changes
 - ❑ Specific Changes for Math Assessments
 - ❑ Other Updates
 - ❑ Questions?

OVERVIEW OF CHANGES

REQUIREMENTS OF HOUSE BILL 743

- House Bill 743 added §39.023 (a-12) to the Texas Education Code.
- It requires STAAR assessments be designed so that
 - 85% of students can complete the grades 3–5 assessments in 2 hours
 - 85% of students can complete the grades 6–8 assessments in 3 hours

REQUIREMENTS OF HOUSE BILL 743

To meet the requirements of House Bill 743, TEA took into consideration

- Testing time data collected from the spring 2015 administrations
- Testing time data collected from the spring 2016 administrations
- Time allotted to test for grades 3–8 in some other states
- Advice from our Technical Advisory Committee
- Projected reliability estimates

REQUIREMENTS OF HOUSE BILL 743

- The tests were shortened to the minimum number of questions per test to maintain the necessary reliability projections and ensure the assessments are valid and reliable.
- State law, §39.0304, requires the state assessments to be valid and reliable.
- Federal law, Section 1111(b)(3)(C)(iii), also requires the state assessments to be valid and reliable.

OVERVIEW OF THE CHANGES

- The decrease in the number of test questions was spread proportionally across the reporting categories for each test.
- The number of field-test questions was decreased from 8 to 6 items.
- Students in grades 3–8 still have up to 4 hours to test.

The slide features a blue gradient background with white circuit-like lines in the corners. These lines consist of small circles connected by straight lines, resembling a network or data flow diagram. The lines are more dense in the top-left and bottom-left corners and more sparse in the top-right and bottom-right corners.

SPECIFIC CHANGES TO STAAR MATHEMATICS ASSESSMENTS

STAAR GRADE 3 MATHEMATICS BLUEPRINT

Reporting Categories	Number of Standards		Number of Questions	
Reporting Category 1: Numerical Representations and Relationships	Readiness Standards	4	8	
	Supporting Standards	10		
	Total	14		
Reporting Category 2: Computations and Algebraic Relationships	Readiness Standards	5	13	
	Supporting Standards	9		
	Total	14		
Reporting Category 3: Geometry and Measurement	Readiness Standards	3	7	
	Supporting Standards	6		
	Total	9		
Reporting Category 4: Data Analysis and Personal Financial Literacy	Readiness Standards	1	4	
	Supporting Standards	6		
	Total	7		
Readiness Standards	Total Number of Standards	13	60%–65%	19–21
Supporting Standards	Total Number of Standards	31	35%–40%	11–13
Total Number of Questions on Test			29 Multiple Choice 3 Griddable 32 Total	

STAAR GRADE 4 MATHEMATICS BLUEPRINT

Reporting Categories	Number of Standards		Number of Questions	
Reporting Category 1: Numerical Representations and Relationships	Readiness Standards	3	9	
	Supporting Standards	10		
	Total	13		
Reporting Category 2: Computations and Algebraic Relationships	Readiness Standards	5	11	
	Supporting Standards	7		
	Total	12		
Reporting Category 3: Geometry and Measurement	Readiness Standards	4	10	
	Supporting Standards	7		
	Total	11		
Reporting Category 4: Data Analysis and Personal Financial Literacy	Readiness Standards	1	4	
	Supporting Standards	4		
	Total	5		
Readiness Standards	Total Number of Standards	13	60%–65%	20–22
Supporting Standards	Total Number of Standards	28	35%–40%	12–14
Total Number of Questions on Test			31 Multiple Choice 3 Griddable 34 Total	

STAAR GRADE 5 MATHEMATICS BLUEPRINT

Reporting Categories	Number of Standards		Number of Questions	
Reporting Category 1: Numerical Representations and Relationships	Readiness Standards	2	6	
	Supporting Standards	4		
	Total	6		
Reporting Category 2: Computations and Algebraic Relationships	Readiness Standards	6	17	
	Supporting Standards	9		
	Total	15		
Reporting Category 3: Geometry and Measurement	Readiness Standards	3	9	
	Supporting Standards	5		
	Total	8		
Reporting Category 4: Data Analysis and Personal Financial Literacy	Readiness Standards	1	4	
	Supporting Standards	6		
	Total	7		
Readiness Standards	Total Number of Standards	12	60%–65%	22–24
Supporting Standards	Total Number of Standards	24	35%–40%	12–14
Total Number of Questions on Test			33 Multiple Choice 3 Griddable 36 Total	

STAAR GRADE 6 MATHEMATICS BLUEPRINT

Reporting Categories	Number of Standards		Number of Questions	
Reporting Category 1: Numerical Representations and Relationships	Readiness Standards	4	10	
	Supporting Standards	11		
	Total	15		
Reporting Category 2: Computations and Algebraic Relationships	Readiness Standards	6	15	
	Supporting Standards	11		
	Total	17		
Reporting Category 3: Geometry and Measurement	Readiness Standards	3	6	
	Supporting Standards	3		
	Total	6		
Reporting Category 4: Data Analysis and Personal Financial Literacy	Readiness Standards	3	7	
	Supporting Standards	10		
	Total	13		
Readiness Standards	Total Number of Standards	16	60%–65%	23–25
Supporting Standards	Total Number of Standards	35	35%–40%	13–15
Total Number of Questions on Test			34 Multiple Choice 4 Griddable 38 Total	

STAAR GRADE 7 MATHEMATICS BLUEPRINT

Reporting Categories	Number of Standards		Number of Questions	
Reporting Category 1: Probability and Numerical Representations	Readiness Standards	2	6	
	Supporting Standards	5		
	Total	7		
Reporting Category 2: Computations and Algebraic Relationships	Readiness Standards	5	15	
	Supporting Standards	7		
	Total	12		
Reporting Category 3: Geometry and Measurement	Readiness Standards	4	12	
	Supporting Standards	5		
	Total	9		
Reporting Category 4: Data Analysis and Personal Financial Literacy	Readiness Standards	2	7	
	Supporting Standards	8		
	Total	10		
Readiness Standards	Total Number of Standards	13	60%–65%	24–26
Supporting Standards	Total Number of Standards	25	35%–40%	14–16
Total Number of Questions on Test			36 Multiple Choice 4 Griddable 40 Total	

STAAR GRADE 8 MATHEMATICS BLUEPRINT

Reporting Categories	Number of Standards		Number of Questions	
Reporting Category 1: Numerical Representations and Relationships	Readiness Standards	1	4	
	Supporting Standards	3		
	Total	4		
Reporting Category 2: Computations and Algebraic Relationships	Readiness Standards	5	16	
	Supporting Standards	9		
	Total	14		
Reporting Category 3: Geometry and Measurement	Readiness Standards	5	15	
	Supporting Standards	9		
	Total	14		
Reporting Category 4: Data Analysis and Personal Financial Literacy	Readiness Standards	2	7	
	Supporting Standards	6		
	Total	8		
Readiness Standards	Total Number of Standards	13	60%–65%	25–27
Supporting Standards	Total Number of Standards	27	35%–40%	15–17
Total Number of Questions on Test			38 Multiple Choice 4 Griddable 42 Total	

NO CHANGES WERE MADE IN THE FOLLOWING

- number of griddable questions
- assessed curriculum
- scale scores
- STAAR Algebra I or II assessments

However, raw scores for each 3–8 test will change since there are fewer questions.

OTHER UPDATES

PROCESS STANDARDS

- The mathematical process standards describe ways in which students are expected to engage with the content.
- These skills should be incorporated into the teaching of the TEKS when possible so that students can attain a greater depth of understanding.
- Because all math questions incorporate one or multiple process skills, only the content standards will be reported.

ONLINE VERSIONS OF STAAR

- No PNP (no support or any type of accommodation)
- All PNP (all available online accommodations)
- LS & CS (Language/Vocabulary and Content Support)
- TTS (Text to Speech)
- CS (Content Support)
- LS (Language/Vocabulary Support)
- CS TTS (Content Support and Text to Speech)
- LS TTS (Language/Vocabulary Support and Text to Speech)

ONLINE VERSIONS OF STAAR

Added tools and functionality available to all students taking the online version:

- Color (allows students to see different screen color and font color)
- Zoom feature (makes text and images on screen larger)
- Pencil tool (black, red, green, or blue, and an eraser)
- Guideline tool (track your place while reading)

RELEASE OF STAAR TESTS

- TEA will release the STAAR assessments administered in spring 2017 in August 2017.
- Grade 3 mathematics
- Grade 4 mathematics
- Grade 5 mathematics (March administration)
- Grade 6 mathematics
- Grade 7 mathematics
- Grade 8 mathematics (March administration)
- Algebra I (May administration)

TEA EXTERNAL REVIEW MEETINGS

Sign up to be invited to our educator committees.

Meetings generally take place in the summer.

Committee responsibilities include review and provide feedback on newly-developed STAAR questions.

Recommendation form available at: <http://www.cvent.com/d/xrqgnz>

QUESTIONS?

Call TEA Student Assessment Division at 512-463-9536.

Email student.assessment@tea.texas.gov

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TEA Math Team

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