

STAAR Alternate Operational Test Spring 2013

Grade 6 Mathematics

Essence Statements

Note: The yellow highlight and alphabetical reference indicate the four state-required essence statements that comprise the STAAR Alternate assessment for Grade 6 Mathematics.

STAAR Reporting Category	TEKS Knowledge and Skills Statement	Essence Statement
STAAR Reporting Category 1 – Numbers, Operations, and Quantitative Reasoning: The student will demonstrate an understanding of numbers, operations, and quantitative reasoning.	(6.1) Number, operation, and quantitative reasoning. The student represents and uses rational numbers in a variety of equivalent forms.	(A) Uses numbers in a variety of equivalent forms.
STAAR Reporting Category 1 – Numbers, Operations, and Quantitative Reasoning: The student will demonstrate an understanding of numbers, operations, and quantitative reasoning.	(6.2) Number, operation, and quantitative reasoning. The student adds, subtracts, multiplies, and divides to solve problems and justify solutions.	Solves problems using operations.
STAAR Reporting Category 2 – Patterns, Relationships, and Algebraic Reasoning: The student will demonstrate an understanding of patterns, relationships, and algebraic reasoning.	(6.3) Patterns, relationships, and algebraic thinking. The student solves problems involving direct proportional relationships.	Solves problems involving ratios.
STAAR Reporting Category 2 – Patterns, Relationships, and Algebraic Reasoning: The student will demonstrate an understanding of patterns, relationships, and algebraic reasoning.	(6.4) Patterns, relationships, and algebraic thinking. The student uses letters as variables in mathematical expressions to describe how one quantity changes when a related quantity changes.	Uses tables, symbols, variables, and formulas to show relationships.
STAAR Reporting Category 2 – Patterns, Relationships, and Algebraic Reasoning: The student will demonstrate an understanding of patterns, relationships, and algebraic reasoning.	(6.5) Patterns, relationships, and algebraic thinking. The student uses letters to represent an unknown in an equation.	Uses symbols in equations.
STAAR Reporting Category 3 – Geometry and Spatial Reasoning: The student will demonstrate an understanding of geometry and spatial reasoning.	(6.6) Geometry and spatial reasoning. The student uses geometric vocabulary to describe angles, polygons, and circles.	(B) Recognizes relationships involving geometric figures.

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STAAR Reporting Category 3 – Geometry and Spatial Reasoning: The student will demonstrate an understanding of geometry and spatial reasoning.	(6.7) Geometry and spatial reasoning. The student uses coordinate geometry to identify location in two dimensions.	Uses coordinate geometry to locate and name points.
STAAR Reporting Category 4 – Measurement: The student will demonstrate an understanding of the concepts and uses of measurement.	(6.8) Measurement. The student solves application problems involving estimation and measurement of length, area, time, temperature, volume, weight, and angles.	(C) Uses estimation, unit conversions, and measurement to solve problems.
STAAR Reporting Category 5 – Probability and Statistics: The student will demonstrate an understanding of probability and statistics.	(6.9) Probability and statistics. The student uses experimental and theoretical probability to make predictions.	(D) Uses probability to make predictions.
STAAR Reporting Category 5 – Probability and Statistics: The student will demonstrate an understanding of probability and statistics.	(6.10) Probability and statistics. The student uses statistical representations to analyze data.	Displays and solves problems using data.