

STAAR Alternate Operational Test Spring 2013

Grade 5 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 5 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.	(5.1) Number, operation, and quantitative reasoning. The student uses place value to represent whole numbers and decimals.	Uses place value to demonstrate understanding of numbers.
STAAR Reporting Category 1 – Numbers, Operations, and Quantitative Reasoning: The student will demonstrate an understanding of numbers, operations, and quantitative reasoning.	(5.2) Number, operation, and quantitative reasoning. The student uses fractions in problem-solving situations.	Uses fractions to describe parts of a whole.
STAAR Reporting Category 1 – Numbers, Operations, and Quantitative Reasoning: The student will demonstrate an understanding of numbers, operations, and quantitative reasoning.	(5.3) Number, operation, and quantitative reasoning. The student adds, subtracts, multiplies, and divides to solve meaningful problems.	(A) Models and solves addition, subtraction, multiplication, and division problems.
STAAR Reporting Category 1 – Numbers, Operations, and Quantitative Reasoning: The student will demonstrate an understanding of numbers, operations, and quantitative reasoning.	(5.4) Number, operation, and quantitative reasoning. The student estimates to determine reasonable results.	Uses estimation strategies to solve problems.
STAAR Reporting Category 2 – Patterns, Relationships, and Algebraic Reasoning: The student will demonstrate an understanding of patterns, relationships, and algebraic reasoning.	(5.5) Patterns, relationships, and algebraic thinking. The student makes generalizations based on observed patterns and relationships.	Recognizes patterns in mathematical situations.

STAAR Reporting Category	TEKS Knowledge and Skills Statement	Essence Statement
STAAR Reporting Category 2 – Patterns, Relationships, and Algebraic Reasoning: The student will demonstrate an understanding of patterns, relationships, and algebraic reasoning.	(5.6) Patterns, relationships, and algebraic thinking. The student describes relationships mathematically.	Recognizes mathematical relationships using number sentences and diagrams.
STAAR Reporting Category 3 – Geometry and Spatial Reasoning: The student will demonstrate an understanding of geometry and spatial reasoning.	(5.7) Geometry and spatial reasoning. The student generates geometric definitions using critical attributes.	(B) Uses attributes to identify geometric figures.
STAAR Reporting Category 3 – Geometry and Spatial Reasoning: The student will demonstrate an understanding of geometry and spatial reasoning.	(5.8) Geometry and spatial reasoning. The student models transformations.	Identifies transformations.
STAAR Reporting Category 3 – Geometry and Spatial Reasoning: The student will demonstrate an understanding of geometry and spatial reasoning.	(5.9) Geometry and spatial reasoning. The student recognizes the connection between ordered pairs of numbers and locations of points on a plane.	Locates points on a coordinate grid.
STAAR Reporting Category 4 – Measurement: The student will demonstrate an understanding of the concepts and uses of measurement.	(5.10) Measurement. The student applies measurement concepts involving length (including perimeter), area, capacity/volume, and weight/mass to solve problems.	(C) Uses measurement to solve problems.
STAAR Reporting Category 4 – Measurement: The student will demonstrate an understanding of the concepts and uses of measurement.	(5.11) Measurement. The student applies measurement concepts. The student measures time and temperature (in degrees Fahrenheit and Celsius).	Uses temperature and time to solve problems.
STAAR Reporting Category 5 – Probability and Statistics: The student will demonstrate an understanding of probability and statistics.	(5.12) Probability and statistics. The student describes and predicts the results of a probability experiment.	Describes and predicts the results of a probability experiment.
STAAR Reporting Category 5 – Probability and Statistics: The student will demonstrate an understanding of probability and statistics.	(5.13) Probability and statistics. The student solves problems by collecting, organizing, displaying, and interpreting sets of data.	(D) Displays and solves problems using data.