STAAR Grade 6 Mathematics Assessment Eligible TEKS

1. Numerical Representations and Relationships (10 questions)

S	6.2A	Classify whole numbers, integers, and rational numbers using a visual representation such as a Venn diagram to describe relationships between sets of numbers.
S	6.2B	Identify a number, its opposite, and its absolute value.
S	6.2C	Locate, compare, and order integers and rational numbers using a number line.
R	6.2D	Order a set of rational numbers arising from mathematical and real-world contexts.
S	6.2E	Extend representations for division to include fraction notation such as a/b represents the same number as $a \div b$ where $b \neq 0$.
S	6.4C	Give examples of ratios as multiplicative comparisons of two quantities describing the same attribute.
S	6.4D	Give examples of rates as the comparison by division of two quantities having different attributes, including rates as quotients.
S	6.4E	Represent ratios and percents with concrete models, fractions, and decimals.
S	6.4F	Represent benchmark fractions and percents such as 1%, 10%, 25%, 33 1/3%, and multiples of these values using 10 by 10 grids, strip diagrams, number lines, and numbers.
R	6.4G	Generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money.
S	6.5C	Use equivalent fractions, decimals, and percents to show equal parts of the same whole.
R	6.7A	Generate equivalent numerical expressions using order of operations, including whole number exponents and prime factorization.
S	6.7B	Distinguish between expressions and equations verbally, numerically, and algebraically.
S	6.7C	Determine if two expressions are equivalent using concrete models, pictorial models, and algebraic representations.
R	6.7D	Generate equivalent expressions using the properties of operations: inverse, identity, commutative, associative, and distributive properties.

2. Computations and Algebraic Relationships (15 questions)

S	6.3A	Recognize that dividing by a rational number and multiplying by its reciprocal result in equivalent values.
S	6.3B	Determine, with and without computation, whether a quantity is increased or decreased when multiplied by a fraction, including values greater than or less than one.
S	6.3C	Represent integer operations with concrete models and connect the actions with the models to standardized algorithms.
R	6.3D	Add, subtract, multiply, and divide integers fluently.
R	6.3E	Multiply and divide positive rational numbers fluently.
S	6.4A	Compare two rules verbally, numerically, graphically, and symbolically in the form of $y = ax$ or $y = x + a$ in order to differentiate between additive and multiplicative relationships.
R	6.4B	Apply qualitative and quantitative reasoning to solve prediction and comparison of real-world problems involving ratios and rates.
S	6.5A	Represent mathematical and real-world problems involving ratios and rates using scale factors, tables, graphs, and proportions.
R	6.5B	Solve real-world problems to find the whole given a part and the percent, to find the part given the whole and the percent, and to find the percent given the part and the whole, including the use of concrete and pictorial models.
S	6.6A	Identify independent and dependent quantities from tables and graphs.
S	6.6B	Write an equation that represents the relationship between independent and dependent quantities from a table.
R	6.6C	Represent a given situation using verbal descriptions, tables, graphs, and equations in the form $y = kx$ or $y = x + b$.
S	6.9A	Write one-variable, one-step equations and inequalities to represent constraints or conditions within problems.
S	6.9B	Represent solutions for one-variable, one-step equations and inequalities on number lines.
S	6.9C	Write corresponding real-world problems given one-variable, one-step equations or inequalities.
R	6.10A	Model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts.
S	6.10B	Determine if the given value(s) make(s) one-variable, one-step equations or inequalities true.

3. Geometry and Measurement (6 questions)

R	6.4H	Convert units within a measurement system, including the use of proportions and unit rates.
S	6.8A	Extend previous knowledge of triangles and their properties to include the sum of angles of a triangle, the relationship between the lengths of sides and measures of angles in a triangle, and determining when three lengths form a triangle.
S	6.8B	Model area formulas for parallelograms, trapezoids, and triangles by decomposing and rearranging parts of these shapes.
S	6.8C	Write equations that represent problems related to the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers.
R	6.8D	Determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers.
R	6.11A	Graph points in all four quadrants using ordered pairs of rational numbers.

4. Data Analysis and Personal Financial Literacy (7 questions)

S	6.12A	Represent numeric data graphically, including dot plots, stem-and-leaf plots, histograms, and box plots.
S	6.12B	Use the graphical representation of numeric data to describe the center, spread, and shape of the data distribution.
R	6.12C	Summarize numeric data with numerical summaries, including the mean and median (measures of center) and the range and interquartile range (IQR) (measures of spread), and use these summaries to describe the center, spread, and shape of the data distribution.
R	6.12D	Summarize categorical data with numerical and graphical summaries, including the mode, the percent of values in each category (relative frequency table), and the percent bar graph, and use these summaries to describe the data distribution.
R	6.13A	Interpret numeric data summarized in dot plots, stem-and-leaf plots, histograms, and box plots.
S	6.13B	Distinguish between situations that yield data with and without variability.
S	6.14A	Compare the features and costs of a checking account and a debit card offered by different local financial institutions.
S	6.14B	Distinguish between debit cards and credit cards.
S	6.14C	Balance a check register that includes deposits, withdrawals, and transfers.
S	6.14E	Describe the information in a credit report and how long it is retained.
S	6.14F	Describe the value of credit reports to borrowers and to lenders.
S	6.14G	Explain various methods to pay for college, including through savings, grants, scholarships, student loans, and work-study.
S	6.14H	Compare the annual salary of several occupations requiring various levels of post-secondary education or vocational training and calculate the effects of the different annual salaries on lifetime income.

Not Eligible for STAAR

6.14D	Explain why it is important to establish a positive credit history.

Blueprint Summary

	Total	STAAR	
Readiness	16	60%-65%	23 – 25
Supporting	35	35%-40%	13 – 15
Total Number of Questions on Test: 34 Multiple Choice; 4 Griddable; 38 Total			