Unit Title	Standards				
	First Semester				
Unit 1 Number Systems	6.NS.1 Compute and represent quotients of positive fractions using a variety of procedures (e.g., visual models, equations, and real-world situations). 6.NS.2 Fluently divide multi-digit whole numbers using a standard algorithmic approach.				
	6.NS.3 Fluently add, subtract, multiply and divide multi-digit decimal numbers using a standard algorithmic approach.				
	6.NS.4 Find common factors and multiples using two whole numbers.				
	a. Compute the greatest common factor (GCF) of two numbers both less than or equal to 100.				
	b. Compute the least common multiple (LCM) of two numbers both less than or equal to 12.				
	c. Express sums of two whole numbers, each less than or equal to 100, using the distributive property to factor out a common factor of the original addends.				
	6.NS.5 Understand that the positive and negative representations of a number are opposites in direction and value. Use integers to represent quantities in real-world situations and explain the meaning of zero in each situation.				
	6.NS.6 Extend the understanding of the number line to include all rational numbers and apply this concept to the coordinate plane.				
	a. Understand the concept of opposite numbers, including zero, and their relative locations on the number line.				
	b. Understand that the signs of the coordinates in ordered pairs indicate their location on an axis or in a quadrant on the coordinate plane.				
	c. Recognize when ordered pairs are reflections of each other on the coordinate plane across one axis, both axes, or the origin.				
	d. Plot rational numbers on number lines and ordered pairs on coordinate planes.				
	6.NS.7 Understand and apply the concepts of comparing, ordering, and finding absolute value to rational numbers.				

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Second Semester
f. Solve one-step problems involving ratios and unit rates (e.g., dimensional analysis).
e. Understand that a percentage is a rate per 100 and use this to solve problems involving wholes, parts, and percentages.
d. Apply concepts of unit rate to solve problems, including unit pricing and constant speed.
c. Use two tables to compare related ratios.
b. Use multiple representations, including tape diagrams, tables, double number lines, and equations, to find missing values of equivalent ratios.
a. Create a table consisting of equivalent ratios and plot the results on the coordinate plane.
6.RP.3 Apply the concepts of ratios and rates to solve real-world and mathematical problems.

Unit 3
Expressions,
Equations,
and
Inequalities

- 6.EEI.4 Apply mathematical properties (e.g., commutative, associative, distributive) to justify that two expressions are equivalent.
- 6.EEI.5 Understand that if any solutions exist, the solution set for an equation or inequality consists of values that make the equation or inequality true.
- 6.EEI.6 Write expressions using variables to represent quantities in real-world and mathematical situations. Understand the meaning of the variable in the context of the situation.
- 6.EEI.7 Write and solve one-step linear equations in one variable involving nonnegative rational numbers for real-world and mathematical situations.
- 6.EEI.8 Extend knowledge of inequalities used to compare numerical expressions to include algebraic expressions in realworld and mathematical situations.
- a. Write an inequality of the form > or < and graph the solution set on a number line.
- b. Recognize that inequalities have infinitely many solutions.
- 6.EEI.9 Investigate multiple representations of relationships in real-world and mathematical situations.
- a. Write an equation that models a relationship between independent and dependent variables.
- b. Analyze the relationship between independent and dependent variables using graphs and tables.
- c. Translate among graphs, tables, and equations.

Unit 4 Geometry & Measurement

- 6.GM.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.
- 6.GM.2 Use visual models (e.g., model by packing) to discover that the formulas for the volume of a right rectangular prism (V = lwh, V = Bh) are the same for whole or fractional edge lengths. Apply these formulas to solve real-world and mathematical problems.
- 6.GM.3 Apply the concepts of polygons and the coordinate plane to real-world and mathematical situations.

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- a. Given coordinates of the vertices, draw a polygon in the coordinate plane.
- b. Find the length of an edge if the vertices have the same x