CCSS Mathematics Standards
Ratios & Proportional Relationships
Sixth Grade

Indicator	Date Taught	Date Retaught	Date Reviewed	Date Assessed	Date Re-Assessed
Understand ratio concepts and use ratio reasoning to solve problems.					
CCSS.MATH.CONTENT.6.RP.A.1 I can use what I know about ratios to describe the relationship between two quantities.					
CCSS.MATH.CONTENT.6.RP.A.2 I can understand how to find a rate when given a specific ratio. (Ex: We paid $75 for 15 hamburgers, which is a rate of $5 per hamburger.)					
CCSS.MATH.CONTENT.6.RP.A.3 I can use reasoning to solve word problems involving rate and ratios.					
CCSS.MATH.CONTENT.6.RP.A.3.A I can make tables of equivalent ratios, find missing values in the tables and use the tables to compare ratios.					
CCSS.MATH.CONTENT.6.RP.A.3.A I can plot ratios on a coordinate plane.					
CCSS.MATH.CONTENT.6.RP.A.3.B I can solve unit rate problems. (Ex: If it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were the lawns being mowed?)					
CCSS.MATH.CONTENT.6.RP.A.3.C I can find a percent of a quantity as a rate per 100. (Ex: 30% of a quantity means 30/100 times the quantity).					
CCSS.MATH.CONTENT.6.RP.A.3.C I can solve problems involving finding the whole if I am given a part and the percent.					
CCSS.MATH.CONTENT.6.RP.A.3.D I can use what I know about ratios to convert units of measurement.					
CCSS.MATH.CONTENT.6.RP.A.3.D I can change units of measurement correctly when multiplying or dividing quantities.					

CCSS Mathematics Standards
The Number System
Sixth Grade

Indicator	Date Taught	Date Retaught	Date Reviewed	Date Assessed	Date Re-Assessed
Apply and extend previous understandings of multiplication and division to divide fractions by fractions.					
CCSS.MATH.CONTENT.6.NS.A.1 I can divide two fractions.					
CCSS.MATH.CONTENT.6.NS.A.1 I can solve word problems involving the division of fractions by fractions.					
Compute fluently with multi-digit numbers and find common factors and multiples.					
CCSS.MATH.CONTENT.6.NS.B.2 I can easily divide multi-digit numbers.					
CCSS.MATH.CONTENT.6.NS.B.3 I can easily add, subtract, multiply and divide multi-digit numbers involving decimals.					
CCSS.MATH.CONTENT.6.NS.B.4 I can find the greatest common factor of two whole numbers less than or equal to 100.					
CCSS.MATH.CONTENT.6.NS.B.4 I can find the least common multiple of two whole numbers less than or equal to 12.					
CCSS.MATH.CONTENT.6.NS.B.4 I can use the distributive property to show the sum of two whole numbers (1-100) in different ways. (Ex: show 36 + 8 as 4(9+2)).					

Indicator	Date Taught	Date Retaught	Date Reviewed	Date Assessed	Date Re-Assessed
Apply and extend previous understandings of numbers to the system of rational numbers.					
CCSS.MATH.CONTENT.6.NS.C.5 I can understand that positive and negative numbers are used to describe amounts having opposite values.					
CCSS.MATH.CONTENT.6.NS.C.5 I can use positive and negative numbers to show amounts in real-world situations and explain what the number 0 means in those situations.					
CCSS.MATH.CONTENT.6.NS.C.6 I can understand that a rational number is a point on a number line.					
CCSS.MATH.CONTENT.6.NS.C.6 I can extend number line diagrams to show positive and negative numbers on the line.					
CCSS.MATH.CONTENT.6.NS.C.6 I can extend coordinate axes to show positive and negative numbers in the plane.					
CCSS.MATH.CONTENT.6.NS.C.6.A I can recognize opposite signs of numbers as showing places on opposite sides of 0 on the number line.					
CCSS.MATH.CONTENT.6.NS.C.6.A I can recognize that the opposite of the opposite of a number is actually the number itself. (Ex: -(-3)=3)					
CCSS.MATH.CONTENT.6.NS.C.6.A I can recognize that 0 is its own opposite.					
CCSS.MATH.CONTENT.6.NS.C.6.B I can understand that the signs (- or +) of numbers in ordered pairs indicate locations in quadrants of the coordinate plane.					
CCSS.MATH.CONTENT.6.NS.C.6.B I can recognize two ordered pairs with differing signs as reflections of each other across one or both axes.					
CCSS.MATH.CONTENT.6.NS.C.6.C I can find and place integers and other rational numbers on a number line diagram.					
CCSS.MATH.CONTENT.6.NS.C.6.C I can find and place ordered pairs on a coordinate plane.					

Indicator	Date Taught	Date Retaught	Date Reviewed	Date Assessed	Date Re-Assessed
Apply and extend previous understandings of numbers to the system of rational numbers. (continued)					
CCSS.MATH.CONTENT.6.NS.C.7 I can order rational numbers.					
CCSS.MATH.CONTENT.6.NS.C.7 I can understand absolute value of rational numbers.					
CCSS.MATH.CONTENT.6.NS.C.7.A I can understand statements of inequality (ex: -3 > -7) and explain their positions and distances apart on a number line.					
CCSS.MATH.CONTENT.6.NS.C.7.B I can write, understand and explain how the order of rational numbers applies in real-world situations (Ex: -3 °C > -7°C to show that -3 °C is warmer than -7°C).					
CCSS.MATH.CONTENT.6.NS.C.7.C I can understand the absolute value of a number as its distance from 0 on the number line.					
CCSS.MATH.CONTENT.6.NS.C.7.C I can understand absolute values as they apply to real-world situations (Ex: for an account balance of -30 dollars, write (-30) =30 to describe the size of the debt in dollars.).					
CCSS.MATH.CONTENT.6.NS.C.7.D I can tell the difference between comparisons of absolute value from statements of order (Ex: An account balance less than -30 dollars is a debt greater than 30 dollars.).					
CCSS.MATH.CONTENT.6.NS.C.8 I can graph points in all four quadrants of the coordinate plane to help me solve real-world and mathematical problems.					
CCSS.MATH.CONTENT.6.NS.C.8 I can use what I know about coordinates and absolute values to figure out the distance between points with the same first coordinate or the same second coordinate.					

CCSS Mathematics Standards
Expressions & Equations
Sixth Grade

Indicator	Date Taught	Date Retaught	Date Reviewed	Date Assessed	Date Re-Assessed
Apply and extend previous understandings of artithmetic to algebraic equaitons.					
CCSS.MATH.CONTENT.6.EE.A.1 I can write and figure out numerical expressions that have whole-number exponents.					
CCSS.MATH.CONTENT.6.EE.A.2 I can write, read and figure out expressions in which letters stand for numbers.					
CCSS.MATH.CONTENT.6.EE.A.2.A I can write expressions with numbers and with letters standing for numbers.					
CCSS.MATH.CONTENT.6.EE.A.2.B I can name the parts of an expression using mathematical words (sum, term, product, factor, quotient, coefficient.)					
CCSS.MATH.CONTENT.6.EE.A.2.B I can look at one or more parts of an expression in different ways. (Ex: 8 + 7 can be seen as the addition sentence or as the number 15.)					
CCSS.MATH.CONTENT.6.EE.A.2.C I can figure out different answers to expressions when given specific values for the variable.					
CCSS.MATH.CONTENT.6.EE.A.2.C I can solve real-world math problems involving expressions that arise from formulas.					
CCSS.MATH.CONTENT.6.EE.A.2.C I can solve math problems including those with exponents, in the usual order (when no parentheses are there to give a particular order).					
CCSS.MATH.CONTENT.6.EE.A.3 I can apply what I know about the properties of operations (associative, commutative and distributive) to create equivalent (or equal) expressions.					
CCSS.MATH.CONTENT.6.EE.A.4 I can recognize when two expressions are equivalent.					

Indicator	Date Taught	Date Retaught	Date Reviewed	Date Assessed	Date Re-Assessed
Reason about and solve one-variable equations and equalities.					
CCSS.MATH.CONTENT.6.EE.B.5 I can understand that solving an equation or inequality means that I find out which values can make the equation or inequality true.					
CCSS.MATH.CONTENT.6.EE.B.5 I can try different numbers in place of a variable to figure out which makes the equation or inequality true.					
CCSS.MATH.CONTENT.6.EE.B.6 I can use variables to represent numbers and write expressions to solve real-world problems.					
CCSS.MATH.CONTENT.6.EE.B.6 I can understand that a variable can stand for an unknown number or any number in a given set of numbers.					
CCSS.MATH.CONTENT.6.EE.B.7 I can solve real-world and mathematical problems by writing and solving equations of the form x + p = q and px = q (where p, q and x are all nonnegative rational numbers).					
CCSS.MATH.CONTENT.6.EE.B.8 I can write an inequality (x > c or x < c) to stand for a limitation or condition in a real-world or mathematical problem that has infinitely many solutions.					
CCSS.MATH.CONTENT.6.EE.B.8 I can show the answers to problems involving inequalities on number line diagrams.					

Indicator	Date Taught	Date Retaught	Date Reviewed	Date Assessed	Date Re-Assessed
Represent and analyze quantitative relationships between dependent and independent variables.					
CCSS.MATH.CONTENT.6.EE.C.9 I can use variables that change in relationship to one another to represent two quantities in a real world problem.					
CCSS.MATH.CONTENT.6.EE.C.9 I can write an equation to show one quantity (the dependent variable) in terms of the other quantity (the independent variable).					
CCSS.MATH.CONTENT.6.EE.C.9 I can use graphs and tables to show the relationship between dependent and independent variables.					

CCSS Mathematics Standards
Statistics & Probability
Sixth Grade

Indicator	Date Taught	Date Retaught	Date Reviewed	Date Assessed	Date Re-Assessed
Develop understanding of statistical variability.					
CCSS.MATH.CONTENT.6.SP.A.1 I can recognize a statistical question as one that expects variability in the data related to the question.					
CCSS.MATH.CONTENT.6.SP.A.2 I can understand that a set of data collected to answer a statistical question has a distribution that can be described by its center, spread and overall shape when plotted on a graph.					
CCSS.MATH.CONTENT.6.SP.A.3 I can understand that a set of numerical data has a measure of center (median and/or mean) that summarizes all of its values with a single number.					
CCSS.MATH.CONTENT.6.SP.A.3 I can understand that in a set of numerical data, the measure of variation describes how its values vary with a single number.					
Summarize and describe distributions.					
CCSS.MATH.CONTENT.6.SP.B.4 I can understand that a distribution of a variable is the description of the relative number of times each possible outcome will occur.					
CCSS.MATH.CONTENT.6.SP.B.4 I can show numerical data in plots on a number line (including dot plots, histograms and box plots).					
CCSS.MATH.CONTENT.6.SP.B.5 I can summarize sets of numerical data in relation to their circumstances.					
CCSS.MATH.CONTENT.6.SP.B.5.A I can summarize data by stating the number of observations.					
CCSS.MATH.CONTENT.6.SP.B.5.B I can summarize data by describing the characteristics of what is being investigated, including how it was measured.					
CCSS.MATH.CONTENT.6.SP.B.5.C I can summarize data by giving numerical measures of center and variability.					
CCSS.MATH.CONTENT.6.SP.B.5.C I can summarize data by describing the overall pattern of the data and noticing unusual deviations from the overall pattern.					
CCSS.MATH.CONTENT.6.SP.B.5.D I can summarize data by explaining how the distribution of the data on a graph relates to the choice of measures of center and variability.					

CCSS Mathematics Standards
Geometry
Sixth Grade

Indicator	Date Taught	Date Retaught	Date Reviewed	Date Assessed	Date Re-Assessed
Solve real-world and mathematical problems involving area, surface area and volume.					
CCSS.MATH.CONTENT.6.G.A.1 I can put together and take apart shapes to help me find the area of right triangles, other triangles, special quadrilaterals and polygons.					
CCSS.MATH.CONTENT.6.G.A.1 I can apply what I know about taking apart and putting together shapes to find the area of objects or places in real world situations.					
CCSS.MATH.CONTENT.6.G.A.2 I can use unit cubes to find the volume of any right rectangular prism.					
CCSS.MATH.CONTENT.6.G.A.2 I can understand that the mathematical formula (V = l w h or V = b h) will give me the same result as using unit cubes to figure out the volume.					
CCSS.MATH.CONTENT.6.G.A.2 I can use the mathematical formulas V=l w h or V= b h to determine the volume of real world objects.					
CCSS.MATH.CONTENT.6.G.A.3 I can draw polygons in the coordinate plane when I am given the coordinates for the vertices.					
CCSS.MATH.CONTENT.6.G.A.3 I can use coordinates to find the length of a side of a polygon joining points with the same first coordinate or the same second coordinate.					
CCSS.MATH.CONTENT.6.G.A.3 I can apply what I have learned about polygons on coordinate planes to real-world and mathematical situations.					
CCSS.MATH.CONTENT.6.G.A.4 I can represent and figure out the surface area of a three dimensional shape by using nets made up of rectangles and triangles.					
CCSS.MATH.CONTENT.6.G.A.4 I can apply my skills involving finding surface area with nets in real-world and mathematical problems.					