6th Grade Math Checklist

	6.RP.A.1: I can use what I know about ratios to describe the relationship between two quantities.
	6.RP.A.2: I can understand how to find a rate when given a specific ratio.
	6.RP.A.3: I can use reasoning to solve word problems involving rate and ratios.
	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.
	6.RP.A.3.C: I can solve problems involving finding the whole if I am given a part and the percent.
	6.RP.A.3.D: I can use what I know about ratios to convert units of measurement.
	6.RP.A.3.D: I can change units of measurement correctly when multiplying or dividing quantities.
_ _	6.NS.A.1: I can divide two fractions.
	6.NS.A.1: I can solve word problems involving the division of fractions by fractions.
	6.NS.B.2: I can easily divide multi-digit numbers.
	6.NS.B.3: I can easily add, subtract, multiply and divide multi-digit numbers involving decimals.
	6.NS.B.4: I can find the greatest common factor of two whole numbers less than or equal to 100.
	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)).
	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.
	6.NS.C.6: I can understand that a rational number is a point on a number line.
	6.NS.C.6: I can extend number line diagrams to show positive and negative numbers on the line.
	6.NS.C.6: I can extend coordinate axes to show positive and negative numbers in the plane.
	6.NS.C.6.A: I can recognize opposite signs of numbers as showing places on opposite sides of 0
	on the number line.
	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).
	6.NS.C.6.A: I can recognize that 0 is its own opposite.
	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.
	6.NS.C.6.C: I can find and place integers and other rational numbers on a number line diagram.
	6.NS.C.6.C: I can find and place ordered pairs on a coordinate plane.
	6.NS.C.7: I can order rational numbers.
	6.NS.C.7: I can understand absolute value of rational numbers.
	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.
	6.NS.C.7.B: I can write, understand and explain how the order of rational numbers applies in
	real-world situations (Ex: -3 degrees C > - 7 degrees C to show that -3 degrees C is warmer than
	-7 degrees C).
	6.NS.C.7.C: I can understand the absolute value of a number as its distance from 0 on the
	number line.
	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).

	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).
	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.
	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.
	6.EE.A.1: I can write and figure out numerical expressions that have whole-number exponents.
	6.EE.A.2: I can write, read and figure out expressions in which letters stand for numbers.
	6.EE.A.2.A: I can write expressions with numbers and with letters standing for numbers.
	6.EE.A.2.B: I can name the parts of an expression using mathematical words (sum, term,
	product, factor, quotient, coefficient).
	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).
	6.EE.A.2.C: I can figure out different answers to expressions when given specific values for the variable.
	6.EE.A.2.C: I can solve real-world math problems involving expressions that arise from formulas.
	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).
	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.
	6.EE.A.4: I can recognize when two expressions are equivalent.
	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.
	6.EE.B.5: I can try different numbers in place of a variable to figure out which makes the
_	equation or inequality true.
	6.EE.B.6: I can use variables to represent numbers and write expressions to solve real-world
	problems.
	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.
	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).
	6.EE.B.8: I can write an inequality $(x > c \text{ or } x < c)$ to stand for a limitation or condition in a
	real-world or mathematical problem that has infinitely many solutions.
	6.EE.B.8: I can show the answers to problems involving inequalities on number line diagrams.
	6.EE.C.9: I can use variables that change in relationship to one another to represent two
	quantities in a real world problem.
	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).
	6.EE.C.9: I can use graphs and tables to show the relationship between dependent and
	independent variables.
	6.SP.A.1: I can recognize a statistical question as one that expects variability in the data related
	to the question.
	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.

L	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.
	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.
	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.
	6.SP.B.4: I can show numerical data in plots on a number line (including dot plots, histograms
	and box plots).
	6.SP.B.5: I can summarize sets of numerical data in relation to their circumstances.
	6.SP.B.5.A: I can summarize data by stating the number of observations.
	6.SP.B.5.B: I can summarize data by describing the characteristics of what is being investigated,
	including how it was measured.
	6.SP.B.5.C: I can summarize data by giving numerical measures of center and variability.
	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.
	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.
J	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.
J	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.
	6.G.A.2: I can use unit cubes to find the volume of any right rectangular prism.
_	6.G.A.2: I can understand that the mathematical formula (V = I w h or V = b h) will give me the
_	same result as using unit cubes to figure out the volume.
_	6.G.A.2: I can use the mathematical formulas V=I w h or V= b h to determine the volume of real
	world objects. 6.G.A.3: I can draw polygons in the coordinate plane when I am given the coordinates for the
_	vertices.
	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.
	6.G.A.3: I can apply what I have learned about polygons on coordinate planes to real-world and
_	mathematical situations.
	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.
	6.G.A.4: I can apply my skills involving finding surface area with nets in real-world and
	mathematical problems.