

**ADVENTURES WITH MATHEMATICS: CLIMBING FROM GRADE 6 TO GRADE 7
COMMON CORE STATE STANDARDS ALIGNMENT**

		The Doorman	Edward's First Car	Integer War	Summer Night Football	Four Square	Concentrating on NETS	See Fracks	Road Trip	Rock, Paper, Scissors!	The Strength of Spaghetti	Take me Out to the Ballgame	Filling Up on Fun	Up, Up, and Away!	A Garden Made of Blocks	Food Science	There's Math in the Mix	Race the Lightning!	Toto's Tornado	Making Room for Math	Shape It Up!	Problem a Day
6.RP.1	Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.											X						X	X			15
6.RP.2	Understand the concept of a unit rate a/b described with a ratio a:b, and use rate language in the context of a ratio relationship.								X				X		X	X	X	X	X			22
6.RP.3	Use rate and ratio reasoning to solve real-world and mathematical problems (includes percent).		X					X	X	X		X		X	X	X	X	X	X		X	1, 13, 14, 15, 23, 26, 27, 38, 39, 40, 41, 48, 54, 57
6.NS.1	Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions.																	X				9, 10, 30, 34, 36
6.NS.2	Fluently divide multi-digit numbers using the standard algorithm.																					
6.NS.3	Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.	X							X			X		X	X	X	X	X	X		X	1, 2, 11, 24, 27, 28, 30, 37, 50
6.NS.4	Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the Distributive Property to express a sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factor.																					
6.NS.5	Understand that positive and negative numbers are used together to describe quantities having opposite directions or values; use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.																					12
6.NS.6	Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from the previous grades to represent points on the line and in the plane with negative number coordinates.																					12, 42, 43, 59
6.NS.7	Understand ordering and absolute value of rational numbers.					X																31, 42, 43, 59, 60
6.NS.8	Solve real-world and mathematical problems by graphing in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.											X										19
6.EE.1	Write and evaluate numerical expressions involving whole-number exponents.																					
6.EE.2	Write, read, and evaluate expressions in which letters stand for numbers.	X									X											15, 22
6.EE.3	Apply the properties of operations to generate equivalent expressions.																					
6.EE.4	Identify when two expressions are equivalent.																					
6.EE.5	Understand solving an equation or inequality as a process of answering a question: which values from a specified set, if any, make the equation or inequality true? Use substitution to determine whether a given number in a specified set makes an equation or inequality true.																					20, 22, 32, 33, 35, 37, 55, 58
6.EE.6	Use variables to represent numbers and write expressions when solving a real-world or mathematical problem; understand that a variable can represent an unknown number, or, depending on the purpose at hand, any number in a specified set.	X									X				X							15, 33, 37
6.EE.7	Solve real-world and mathematical problems by writing and solving equations of the form $x + p = q$ and $px = q$ for cases in which p, q, and x are all nonnegative rational numbers.																					
6.EE.8	Write an inequality of the form $x > c$ or $x < c$ to represent a constant or condition in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.																					

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6.EE.9	Use variables to represent two quantities in a real-world problem that change in relationship to one another; write an equation to express one quantity, thought of as the dependent variable, in terms of the other quantity, thought of as the independent variable.											X	X	X										16, 17, 18
6.G.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.G.2	Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism.												X											28, 29
6.G.3	Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.																							8
6.G.4	Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.						X						X	X										
6.SP.1	Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.		X																					
6.SP.2	Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.		X																					
6.SP.3	Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.																							
6.SP.4	Display numerical data in plots on a number line, including dot plots, histograms, and box plots.																							
6.SP.5	Summarize numerical data sets in relation to their context.		X							X														