

**ADVENTURES WITH MATHEMATICS: CLIMBING FROM GRADE 5 TO GRADE 6
COMMON CORE STATE STANDARDS ALIGNMENT**

		Hit the Target	Shapes in Space	Planning a Barbecue	What's the Temperature?	Colors of Data	Life on Planet Priorius	Soccer Time	Prime Time!	Apple Pie, Oh My!	At the Races	No. Bake Fractions	Big Hitters	Treasure Hunt	The Fractionator	Dog Gone!	Playing Around with Angles	Size-up Your Cereal	Michigan Match	Are YOU Golden?	Math Quest	Save the Planet: Box or Can It?	Summer Savings	Problem a Day
5.OA.1	Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.	X		X												X								
5.OA.2	Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them.	X		X												X								
5.OA.3	Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding pairs on a coordinate plane.																							9
5.NBT.1	Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.																							
5.NBT.2	Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10.																							33, 39, 47, 54, 55
5.NBT.3	Read, write, and compare decimals to thousandths.					X														X		X		4, 7, 22
5.NBT.4	Use place value understanding to round decimals to any place.											X	X							X		X		
5.NBT.5	Fluently multiply multi-digit whole numbers using the standard algorithm.	X	X				X											X				X		8, 24, 28, 38, 33, 35, 39, 46, 7
5.NBT.6	Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors.	X	X					X	X		X		X	X				X		X		X	X	5, 8, 18, 23, 24, 28, 30, 33, 38, 35, 45, 51, 53, 58
5.NBT.7	Add, subtract, multiply, and divide decimals to hundredths.	X	X		X					X		X	X					X				X	X	42, 56, 57
5.NF.1	Add and subtract fractions with unlike denominators by replacing given fractions with equivalent fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators.	X		X		X				X					X	X			X					19, 21, 31, 36, 44
5.NF.2	Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators.									X						X			X					19, 31, 36, 43, 44
5.NF.3	Interpret a fraction as division of the numerator. Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers.					X					X	X	X		X	X			X					2, 4
5.NF.4	Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.			X						X		X			X	X			X				X	21, 43
5.NF.5	Interpret multiplication as scaling.						X			X		X												
5.NF.6	Solve real world problems involving multiplication of fractions and mixed numbers.									X		X				X			X					
5.NF.7	Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.									X		X			X								X	12, 40
5.MD.1	Convert among different-sized standard measurement units within a given measurement system.						X			X		X												6, 10, 12, 13, 30, 35, 37, 39, 40, 41, 42, 54, 55, 57
5.MD.2	Make a line plot to display a data set of measurements in fractions of a unit.																							

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5.MD.3	Recognize volume as an attribute of solid figures and understand concepts of volume measurement.																						X		17, 42, 51, 54	
5.MD.4	Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.																							X		13, 37, 42, 51
5.MD.5	Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.																		X					X		
5.G.1	Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates.					X					X								X							
5.G.2	Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.					X					X								X							11, 48
5.G.3	Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.																									32
5.G.4	Classify two-dimensional figures in a hierarchy based on properties.																									32