6th Grade Proficiency Map

Grade:6 School Year:	Unit 1 Name: Area andSurface Area Total Days: End Date:	Unit 2 Name:Introducing Ratios Total Days: End Date:	Unit 3 Name:Unit Rate and Percentages Total Days: End Date:	Unit 4 Name:Dividing Fractions Total Days: End Date:	Unit 5 Name:Arithmetic:	Unit 6 Name:Expressions and Equations Total Days: End Date:	Unit 7 Name: Rational Numbers Total Days: End Date:	Unit 8 Name: Data Sets and Distributions Total Days: End Date:
Strand	**GREEN = Major Cluster Essential Standards** **BLUE = Supporting cluster Standards**							
Ratios and Proportional Relationships		**6.RP.A.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.** **6.RP.A.2 Understand the concept of a unit rate a/b associated with a ratio a:b with b ≠ 0, and use rate language in the context of a ratio relationship.**	**6.RP.A.3.b Solve unit rate problems including those involving unit pricing and constant speed** **6.RP.A.3.c Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.**					
The Number System				**6.NS.A.1 Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.**		6.NS.C.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 **6.NS.C.7** Understand ordering and absolute value of rational numbers.	
Expressions and Equations						**6.EE.A.1 Write and evaluate numerical expressions involving whole-number exponents.** **6.EE.A.2 Write, read, and evaluate expressions in which letters stand for numbers.** **6.EE.A.3 I can apply the properties of operations to generate equivalent expressions.** **6.EE.B5 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.** **6.EE.B.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.B.8 Write an inequality of the form x > c or x < c to represent a constraint 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. **6.EE.C.9 Represent And Analyze Quantitative Relationships Between Dependent And Independent Variables and another; dependent and independent variable**		
Geometry	**6.G.A.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.A.2 Find the volume of a right rectangular prism with fractional edge lengths** **6.G.A.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.**							
Statistics and Probability								6.SP.B.4 Display numerical data in plots on a number line, including dot plots, histograms, and box plots 6.SP.B.5 Summarize numerical data sets in relation to their context, such as by: Giving quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered.