	Math: Grade 6			
UNIT/Weeks (not consecutive)	Timeline/Topics	Essential Questions		
4	Numbers  Identifying Integers and Their Opposites Comparing and Ordering Integers Absolute Value Greatest Common Factor Least Common Factor Least Common Multiple Identifying Opposites and Absolute Value of Rational Numbers Comparing and Ordering Rational Numbers	<ul> <li>How do you identify an integer and its opposite?</li> <li>How do you compare and order integers?</li> <li>How do you find and use absolute value?</li> <li>How do you find and use the greatest common factor of two whole numbers?</li> <li>How do you find and use the least common multiple of two whole numbers?</li> <li>How can you classify rational numbers?</li> <li>How can you identify opposites and absolute values of rational numbers?</li> <li>How do you compare and order rational numbers?</li> </ul>		
4.6	<ul> <li>Number Operations</li> <li>Applying GCF and LCM to Fraction Operations</li> <li>Dividing Fractions</li> <li>Dividing Mixed Numbers</li> <li>Solving Multi-step Problems with Fractions and Mixed Numbers</li> <li>Dividing Whole Numbers</li> <li>Adding and Subtracting Decimals</li> <li>Multiplying Decimals</li> <li>Dividing Decimals</li> <li>Applying Operations with Rational Numbers</li> </ul>	<ul> <li>How do you use the GCF and LCM when adding, subtracting, and multiplying fractions?</li> <li>How do you divide fractions?</li> <li>How do you divide mixed numbers?</li> <li>How can you solve word problems involving more than one fraction operation?</li> <li>How do you divide multidigit whole numbers?</li> <li>How do you add and subtract decimals?</li> <li>How do you multiply decimals?</li> <li>How do you divide decimals?</li> <li>How can you solve problems involving multiplication and division</li> </ul>		

		of fractions and decimals?
5.4	Proportionality: Ratios and Rates  Ratios Rates Using Ratios and Rates to Solve Problems Rations, Rates, Tables and Graphs Solving Problems with Proportions Converting Within Measurement Systems Converting Between Measurement Systems Understanding Percent Percents, Fractions and Decimals Solving Percent Problems	<ul> <li>How do you use ratios to compare two quantities?</li> <li>How do you use rates to compare quantities?</li> <li>How can you use ratios and rates to make comparisons and predictions?</li> <li>How can you represent real-world problems involving ratios and rates with tables and graphs?</li> <li>How can you solve problems with proportions?</li> <li>How do you convert units within a measurement system?</li> <li>How do you use ratios and proportions to convert measurements?</li> <li>How can you write a ratio as a percent?</li> <li>How can you write equivalent percents, fractions and decimals?</li> <li>How do you use percents to solve problems?</li> </ul>
3.8	<ul> <li>Equivalent Expressions</li> <li>Exponents</li> <li>Prime Factorization</li> <li>Order of Operations</li> <li>Modeling and Writing Expressions</li> <li>Evaluating Expressions</li> <li>Generating Equivalent Expressions</li> </ul>	<ul> <li>How do you use exponents to represent numbers?</li> <li>How do you write the prime factorization of a number?</li> <li>How do you use the order of operations to simplify expressions with exponents?</li> <li>How do you write algebraic expressions</li> </ul>

		and use models to decide if expressions are equivalent?  How can you use the order of operations to evaluate algebraic expressions?  How can you identify and write equivalent expressions?
4.6	<ul> <li>Equations and Inequalities</li> <li>Writing Equations to Represent Situations</li> <li>Addition and Subtraction Equations</li> <li>Multiplication and Division Equations</li> <li>Writing Inequalities</li> <li>Graphing in the Coordinate Plane</li> <li>Independent and Dependent Variables in Tables and Graphs</li> <li>Writing Equations from Tables</li> <li>Representing Algebraic Relationships in Tables and Graphs</li> </ul>	<ul> <li>How do you write equations and determine whether a number is a solution of an equation?</li> <li>How do you solve equations that contain addition and subtraction?</li> <li>How do you solve equations that contain multiplication or division?</li> <li>How can you use inequalities to represent real-world constraints or conditions?</li> <li>How do you locate and name points in the coordinate plane?</li> <li>How can you identify independent and dependent quantities from tables and graphs?</li> <li>How can you use an equation to show a relationship between two variables?</li> <li>How can you use verbal descriptions, tables, and graphs to represent algebraic relationships?</li> </ul>
4.4	• Area of Quadrilaterals	<ul> <li>How can you find the areas of parallelograms, rhombuses, and trapezoids?</li> </ul>
	<ul><li> Area of Triangles</li><li> Solving Area Equations</li></ul>	How do you find the area of a triangle?

	<ul> <li>Area of Polygons</li> <li>Distance in the Coordinate Plane</li> <li>Polygons in the Coordinate Plane</li> <li>Nets and Surface Area</li> <li>Volume of Rectangular Prisms</li> <li>Solving Volume Equations</li> </ul>	<ul> <li>How do you use equations to solve problems about area of rectangles, parallelograms, trapezoids, and triangles?</li> <li>How can you find the area of a polygon by breaking it into simpler shapes?</li> <li>How can you use absolute value to find the distance between two points with the same x or y coordinates?</li> <li>How can you solve problems by drawing polygons in the coordinate plane?</li> <li>How can you use nets to find surface area?</li> <li>How do you find the volume of a rectangular prism?</li> <li>How do you write equations to solve problems involving volume of rectangular prisms?</li> </ul>
3	<ul> <li>Measurement and Data</li> <li>Measure of Center</li> <li>Mean Absolute Deviation</li> <li>Box Plots</li> <li>Dot Plots and Data Distribution</li> <li>Histograms</li> </ul>	<ul> <li>How can you use measures of center to describe a data set?</li> <li>How can you determine and use the mean absolute deviation of a set of data points?</li> <li>How can you use a box plot and measures of spread to describe a data set?</li> <li>How can you summarize and display numeric data?</li> <li>How do you display data in a histogram?</li> </ul>
3.2	<u>Integers</u>	

- Areas of Parallelograms and Triangles
- Adding Integers
- Subtracting Integers
- Multiplying Integers
- Dividing Integers

- How do you add integers?
- How do you subtract integers?
- How do you multiply integers?
- How do you divide integers?