All Things Algebra®	MATH 6 CURRICULUM
Unit 1: Whole Numbers	Unit 2: Integers
 Place Value Review Whole Number Operations Divisibility Rules Powers and Exponents; Powers of 10 Perfect Squares Order of Operations Prime Factorization Great Common Factor Least Common Multiple 	 Representing & Writing Integers Comparing and Ordering Integers Absolute Value Adding Integers Subtracting Integers Multiplying Integers Dividing Integers Order of Operations with Integers The Coordinate Plane: Identify & Label Axes, Origin, Quadrants. Graph Ordered Pairs with Integral Coordinates
Unit 3: Rational Numbers	Unit 4: Algebraic Expressions
 Decimals & Place Value Adding & Subtracting Decimals Multiplying Decimals Dividing Decimals Writing Fractions Mixed vs. Improper Forms Adding & Subtracting Fractions Multiplying Fractions Dividing Fractions Fractions, Decimals, and Percents Percent of a Number Negative Rational Numbers 	 Algebraic Expressions (Variables, Coefficients, Constants) Evaluating Expressions Writing Expressions Equivalent Expressions Properties: Commutative, Associative, Identity, Inverse Distributive Property Combining Like Terms Simplifying Expressions (Distribute and Combine) Factoring Expressions

Unit 5: Equations & Inequalities	Unit 6: Ratio & Proportion
 Writing Equations in One Variable Properties of Equality Solving Equations with Addition or Subtraction (Whole Numbers, Rational Numbers, & Integers) Solving Equations with Multiplication or Division (Whole Numbers, Rational Numbers, & Integers) Writing & Graphing Inequalities Identifying Solutions to an Inequality Properties of Inequality Solving Inequalities with Addition or Subtraction (Whole Numbers & Integers) Solving Inequalities with Multiplication or Division (Whole Numbers & Integers) 	 Ratios Equivalent Ratios Unit Rates Determine if a Proportional Relationship Exists (Given Verbal Descriptions, Tables, Graphs) Write a Proportional Relationships (Given Verbal Descriptions, Tables, Graph, Unit Rate) Graph Proportional Relationships Represent Ratios as Fractions, Decimals, and Percents Comparing & Order Fractions, Decimals, and Percents
Unit 7: Area & Volume	Unit 8: Statistics
 Identify Regular Polygons Area & Perimeter of Rectangles, Triangles, Parallelograms, and Trapezoids Congruent Polygons Lines of Symmetry Polygons in the Coordinate Plane Area of Composite Figures Area of Circles Circumference of Circles Three-Dimensional Figures Surface Area of Prisms (with nets) Surface Area of Pyramids (with nets) Volume of Rectangular Prisms 	 Measures of Center: Mean, Median, and Mode Effects on the Measure of Center (Outliers, adding, or removing data values) Range, Quartiles, Interquartile Range Mean Absolute Deviation Stem-and-Leaf Plots Histograms Shapes of Distributions Box-and-Whisker Plots Circle Graphs

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