

Math – Grade 7
District 2853

Month	Content	Performance Standards Addressed	Skills for Student Achievement	Assessment Power Standard
September	<ul style="list-style-type: none"> The World of Data 	Mathematical Reasoning - Benchmark #3 Computation and Operation - Benchmarks #6, #8 Algebra - Benchmarks #1, #3 Data and Statistics - Benchmarks #1, #2 Measurement - Benchmark #1	<ul style="list-style-type: none"> Read and interpret bar and circle graphs Create bar graph Make a line plot, stem-and-leaf diagram, and a scatter plot Find mean, median, mode and range Read and interpret line graphs and scatter plots Recognize trends Construct trend lines Use trend lines to make predictions Find and use formulas Use order of operations 	Formative assessments, quiz, and test Use order of operations to simplify expressions. Use formulas to find central tendencies.
October	<ul style="list-style-type: none"> The Language of Algebra Decimals 	Mathematical Reasoning - Benchmarks #1, #2, #3, #4, #5, #6 Number Sense - Benchmarks #1, #2 Algebra - Benchmarks #1, #2 Computation and Operation - Benchmarks #5, #8	<ul style="list-style-type: none"> Use commutative, associative and distributive properties Translate words into algebraic expressions Solve one - and two-step equations using inverse operations Compare and order decimals Estimate decimals Add, subtract, multiply and divide decimals Write large number in scientific notation Use divisibility tests 	Formative assessment, quiz, and test Use mathematical properties to solve equations with integers and rational numbers.
November	<ul style="list-style-type: none"> Fractions 	Number Sense - Benchmark #1 Computation and Operation - Benchmarks #4, #8	<ul style="list-style-type: none"> Identify prime and composite numbers Write and number as a product of primes Find greatest common factor Find least common multiple Write equivalent fractions Write fractions in lowest terms Convert fractions to decimals Convert decimals to fractions 	Formative assessment, quiz, and test Identify whole, rational, irrational, real and integers.

December	<ul style="list-style-type: none"> Geometry 	Mathematical Reasoning - Benchmarks #3, #4, #5 Computation and Operation - Benchmarks #1, #2, #4, #8 Geometry - Benchmark #4 Measurement - Benchmark #1	<ul style="list-style-type: none"> Estimate fractions and mixed numbers Add, subtract, multiply and divide fractions and mixed numbers Name and measure angles Identify basic terms of geometry Find perimeter Find area find the square root Use the Pythagorean theorem 	Formative assessments, quiz, and test Use the Pythagorean theorem to find missing values on right triangles.
January	<ul style="list-style-type: none"> Ratio & Proportion 	Computation and Operation - Benchmark #8 Patterns and Functions - Benchmark #1 Geometry - Benchmark #3	<ul style="list-style-type: none"> Find equivalent ratios and rates Write and solve proportions Apply concepts of ratio and proportions to solve word problems 	Formative assessment, quiz, and test Identify ratio and proportions and solve.
February	<ul style="list-style-type: none"> Percent 	Number Sense - Benchmark #1 Computation and Operation - Benchmarks #3, #4, #8	<ul style="list-style-type: none"> Convert fractions to decimals and percents Convert percents to fractions and decimals Convert decimals to percents and fractions Find percent increase and decrease Solve percent problems Find simple interest Find sales prices and discounts 	Formative assessment, quiz, and test Find percent of change. Find final price of an item after discounts and tax.
March	<ul style="list-style-type: none"> Integers Algebra 	Mathematical Reasoning - Benchmarks #1, #2, #3, #4, #5, #6 Number Sense - Benchmark #3 Computation and Operation - Benchmark #8 Algebra - Benchmark #2 Patterns and Functions - Benchmark #2	<ul style="list-style-type: none"> Find the opposite and absolute value of a number Compare and order integers Add, subtract, multiply and divide integers Graph ordered pairs on a coordinate plane Identify arithmetic and geometric sequences Write rules for sequences Graph equations Graph inequalities Solve one- and two-step equations with integers 	Formative assessment, quiz, and test Solve and graph inequalities and absolute value equations.
April	<ul style="list-style-type: none"> Geometry 	Computation and Operation - Benchmark #8 Spatial Sense - Benchmark #1 Geometry - Benchmark #1 Measurement - Benchmark #1	<ul style="list-style-type: none"> Name polyhedrons Find the surface area and volume of polyhedrons Make circle graphs Find the circumference and area of a circle Find surface area and volume of cylinders 	Formative assessment, quiz, test Use formulas to find the surface and volume on polyhedrons.
May	<ul style="list-style-type: none"> Probability 	Computation and Operation - Benchmark #8	<ul style="list-style-type: none"> Use tree diagrams and the counting principle to find all outcomes 	

		Probability - Benchmark #1	<ul style="list-style-type: none"> • Count the number of ways items can be arranged • Find the odds that an event happens • Find the probability of an event 	<p>Formative assessment, quiz, and test</p> <p>Find the probability and odds of independent events.</p>
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