

**Pre-Algebra
District 2853**

Month	Content	Performance Standards Addressed Grade 7 Grades 8-9	Skills for Student Achievement	Assessment
September	<ul style="list-style-type: none"> · Order of Operations · Variables-Equations · Solving Equations · Inequalities · Collecting Data 	Computation & Operation - Benchmark #6 Algebra - Benchmark #1 Mathematical Reasoning - Benchmarks #1, #4, #5 Data and Statistics - Benchmark #2	Mathematical Reasoning - Benchmarks #1, #2, #4, #5 Algebra - Benchmark #4 Patterns and Functions - Benchmark #3	<ul style="list-style-type: none"> · Solve problems using the four-step problem-solving plan · Select appropriate method of computation · Use variables & algebraic properties · Graph points in coordinate system · Gather, record, and analyze data
October	<ul style="list-style-type: none"> · Exploring Integers · Coordinate Systems · Patterns in Problem Solving · Solving Equations using Formulas · Area & Perimeter · Solving Inequalities 	Mathematical Reasoning - Benchmarks #1, #2, #4 Number Sense - Benchmark #3 Computation & Operation - Benchmark #1 Algebra - Benchmark #3	Mathematical Reasoning - Benchmarks #1, #2, #4 Patterns and Functions - Benchmark #2 Number Sense - Benchmarks #1, #2 Algebra - Benchmark #4 Computation & Operation - Benchmarks #2, #5	<ul style="list-style-type: none"> · Graph on number line and coordinate system · Add, subtract, multiply and divide integers · Evaluate problems using integers · Solve one-step equations · Use formulas to solve problems · Solve one-step inequalities
November	<ul style="list-style-type: none"> · Powers & Exponents · Factors (Greatest Common Factor) (Least Common Multiple) · Simplify Fractions 	Computation & Operation - Benchmark #5 Mathematical Reasoning - Benchmark #6 Number Sense - Benchmark #1	Computation & Operation - Benchmarks #1, #5 Mathematical Reasoning - Benchmark #6 Number Sense - Benchmark #3	<ul style="list-style-type: none"> · Solve problems involving powers and exponents · Find the GCF of numbers and monomials · Find the LCM of numbers and monomials · Simplify and compare fractions
December	<ul style="list-style-type: none"> · Rational Numbers · Adding and Subtracting Decimals · Adding and Subtracting Fractions · Solving equations and Inequalities · Sequences 	Computation & Operation - Benchmark #1 Algebra - Benchmark #2 Mathematical Reasoning - Benchmark #2, #4	Number Sense - Benchmark #4 Computation & Operation - Benchmarks #1, #7 Mathematical Reasoning - Benchmarks #2, #4 Patterns and Functions - Benchmark #1	<ul style="list-style-type: none"> · Estimate and find sums and differences of rational numbers · Solve equations and inequalities involving rational numbers · Find terms of sequences
January	<ul style="list-style-type: none"> · Write Fractions as Decimals 	Number Sense - Benchmark #1 Computation &	Number Sense - Benchmarks #1, #2 Computation &	<ul style="list-style-type: none"> · Express fractions as decimals and decimals as fractions

	<ul style="list-style-type: none"> · Multiply and Divide Fractions · Multiply and Divide Decimals · Measures of Central Tendency 	<ul style="list-style-type: none"> · Operation - Benchmark #1 · Data & Statistics - Benchmark #2 · Mathematical Reasoning - Benchmarks #2, #4 	<ul style="list-style-type: none"> · Operation - Benchmark #1 · Data and Statistics - Benchmark #2 	<ul style="list-style-type: none"> · Find products and quotients of rational numbers · Determine mean, median and mode of a set of data 	
January	<ul style="list-style-type: none"> · Equations and inequalities using decimals and fractions 	<ul style="list-style-type: none"> · Mathematical Reasoning - Benchmarks #2, #4 	<ul style="list-style-type: none"> · Mathematical Reasoning - Benchmarks #2, #4 	<ul style="list-style-type: none"> · Solve equations and inequalities using decimals and fractions 	
February	<ul style="list-style-type: none"> · Two-Step equations · Multi-Step Inequalities · Writing equations and writing inequalities 	<ul style="list-style-type: none"> · Mathematical Reasoning - Benchmarks #2, #3, #4 	<ul style="list-style-type: none"> · Mathematical Reasoning - Benchmarks #2, #3, #4 	<ul style="list-style-type: none"> · Write and solve multi-step equations · Write and solve multi-step inequalities 	
March	<ul style="list-style-type: none"> · Relations and Functions · Graphing Relations and Functions · Slope, Systems of Equations · Graph Inequalities, Ratios and Proportions · Percents 	<ul style="list-style-type: none"> · Patterns and Functions - Benchmarks #1, #2 · Mathematical Reasoning - Benchmarks #1, #2, #4 · Data and Statistics - Benchmark #1 · Computation & Operation - Benchmark #3 · Probability - Benchmark #1 	<ul style="list-style-type: none"> · Patterns and Functions - Benchmarks #2, #3 · Mathematical Reasoning - Benchmarks #1, #2, #4 · Data and Statistics - Benchmark #2 · Probability - Benchmarks #1, #2 	<ul style="list-style-type: none"> · Determine if a relation is a function · Graph equations · Determine slope · Solve systems of equations · Graph inequalities · Use ratios and proportions to solve problems · Solve percent problems 	
April	<ul style="list-style-type: none"> · Area · Surface Area · Volume 	<ul style="list-style-type: none"> · Algebra - Benchmark #3 	<ul style="list-style-type: none"> · Algebra - Benchmark #2 · Spatial Sense - Benchmark #1 · Geometry - Benchmarks #1, #2, #3, #4, #5 	<ul style="list-style-type: none"> · Find the area of polygons and circles · Find the surface area of three dimensional figures · Calculate the volume of three dimensional figures 	
May	<ul style="list-style-type: none"> · Polynomials · Classify Polynomials · Powers 	<ul style="list-style-type: none"> · Algebra - Benchmark #1 · Computation & Operation - Benchmark #5 	<ul style="list-style-type: none"> · Algebra - Benchmarks #1, #4 · Computation & Operation - Benchmark #3 	<ul style="list-style-type: none"> · Classify polynomials · Perform basic operations on polynomials · Evaluate expressions using laws of exponents 	