

**Algebra I
District 2853**

Month	Content	Performance Standards Addressed Grades 9-11 Grades 11-12		Skills for Student Achievement	Assessment
September	Use of Variables	Algebra - Benchmark #1		<ul style="list-style-type: none"> · Write and relate equations for real situations · Finding solutions for variable equations · Draw and interpret graphs of inequalities · Understand set operations · Application of formulas 	<ul style="list-style-type: none"> · In class activity on Pythagorean Theorem · Apply to daily life · Test
October	Multiplication in Algebra	Mathematical Reasoning - Benchmark #1 Computation & Operation - Benchmarks #1, #6 Algebra - Benchmarks #1, #5		<ul style="list-style-type: none"> · Apply math properties - multiplication · Multiplication of Algebraic fractions · Use of rate · Operations of positive and negative numbers · Solve inequalities · Problems of chance 	<ul style="list-style-type: none"> · Application to real life problems · Test
November	Addition in Algebra	Mathematical Reasoning - Benchmark #1 Computation & Operation - Benchmarks #1, #6 Algebra - Benchmarks #1, #5		<ul style="list-style-type: none"> · Apply math properties - addition · Draw and interpret coordinate graphs · Solve two-step equations · Use distributive property · Linear equations and patterns · Solve 2-step inequalities 	<ul style="list-style-type: none"> · In class activity for like terms · Test
December	Subtraction in Algebra	Mathematical Reasoning - Benchmark #1 Computation & Operation - Benchmarks #1, #6 Algebra - Benchmarks #1, #5		<ul style="list-style-type: none"> · Apply properties to subtraction · Solve equations using subtraction · Read & use <u>spreadsheets</u> · Graph linear equations · Solve triangle simulations 	<ul style="list-style-type: none"> · In class activity on triangle inequality · Test
January	Linear Sentences	Mathematical Reasoning - Benchmarks #1, #3 Patterns and Functions		<ul style="list-style-type: none"> · Application of horizontal & vertical linear equations · Apply spreadsheets real-world problems · Solve equations with 	<ul style="list-style-type: none"> · Visual vie of graphing calculation · Test

		<ul style="list-style-type: none"> - Benchmarks #1, #3 Algebra <ul style="list-style-type: none"> - Benchmark #5 Data and Statistics <ul style="list-style-type: none"> - Benchmark #2 Geometry <ul style="list-style-type: none"> - Benchmark #7 		<ul style="list-style-type: none"> variable on both sides · Use linear equations to solve real-world problems · Use of graphic calculators · Clear fractions from equations 	
February	<ul style="list-style-type: none"> · Division in Algebra 	Mathematical Reasoning <ul style="list-style-type: none"> - Benchmark #1 Computation & Operation <ul style="list-style-type: none"> - Benchmarks #1, #6 Algebra <ul style="list-style-type: none"> - Benchmarks #1, #5 		<ul style="list-style-type: none"> · Algebraic division · Operations on real numbers · Use of rates, ratios and percents · Using probability · Solve percent problems · Proportions write and solve 	<ul style="list-style-type: none"> · Similar figure in class activity · Apply to real life · Test
March	<ul style="list-style-type: none"> · Slopes and Lines 	Mathematical Reasoning <ul style="list-style-type: none"> - Benchmarks #1, #4 Data and Statistics <ul style="list-style-type: none"> - Benchmark #3 Patterns and Functions <ul style="list-style-type: none"> - Benchmark #1 Algebra <ul style="list-style-type: none"> - Benchmarks #3, #5 Geometry <ul style="list-style-type: none"> - Benchmark #5 		<ul style="list-style-type: none"> · Find Slope & understand · Understand rate of change · Write equations involving slope and intercepts · Determine line of trends 	<ul style="list-style-type: none"> · Latitude items activity · Apply to real life · Test
April	<ul style="list-style-type: none"> · Exponential Powers 	Mathematical Reasoning <ul style="list-style-type: none"> - Benchmark #3 Patterns and Functions <ul style="list-style-type: none"> - Benchmarks #2, #4 Algebra <ul style="list-style-type: none"> - Benchmark #6 		<ul style="list-style-type: none"> · Application of exponents · Use the rules of exponents 	<ul style="list-style-type: none"> · Real life application problems · Test
May	<ul style="list-style-type: none"> · Quadratic Equations and Square Roots · Polynomials · Linear Systems · Functioning (if time permits) 	Patterns and Functions <ul style="list-style-type: none"> - Benchmark #1 Algebra <ul style="list-style-type: none"> - Benchmark #11 	Algebra <ul style="list-style-type: none"> - Benchmarks #1, #10 	<ul style="list-style-type: none"> · Solve quadratic equations · Simplify radicals · Use of absolute value in distance formula · Define polynomials · Use the rules for multiplying different polynomial forms · Solve a system of equations by graphing, substitution, and addition (mult.) method · Examine and apply 	<ul style="list-style-type: none"> · Daily Assignments · Application where possible · Test

				the various factoring patterns	
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