

St. Leo School Algebra Curriculum Map

Month	Content and Standards	Skills	Assessment
August	Order of Operations Equations Absolute Value (2.7, 2.8, 2.12) AE 2.11	<ul style="list-style-type: none"> • Use order of operations • Translate sentences into equations • Translate equations into sentences • Identify absolute value and opposites • Use the distributive property 	<ul style="list-style-type: none"> • Daily homework • Boardwork • Quizzes • Tests
September	Real Numbers Single Variable Equations (2.7, 2.8, 2.12) AE 2.12	<ul style="list-style-type: none"> • Add, subtract, multiply and divide real numbers • Solve single variable equations 	<ul style="list-style-type: none"> • Daily homework • Boardwork • Quizzes • Tests

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Month	Content and Standards	Skills	Assessment
October/ November	Word problems Exponents Polynomials (2.7, 2.8, 2.10, 2.12) AE 2.7 – 2.10	<ul style="list-style-type: none"> • Add, subtract and multiply polynomials • Use rules of exponents to simplify expressions 	<ul style="list-style-type: none"> • Daily homework • Boardwork • Quizzes • Tests
November/ December	FOIL Method Monomial Factors Factor by grouping Factoring (2.7, 2.8, 2.12) AE 2.11 – 2.13	<ul style="list-style-type: none"> • Use FOIL method to multiply binomials • Identify monomial factors of polynomials by GCF • Factor a polynomial by grouping terms • Use the AC method to factor quadratic expressions • Use 2-step factoring to factor polynomials • Solve problems by writing and solving quadratic equations 	<ul style="list-style-type: none"> • Daily homework • Boardwork • Quizzes • Tests

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<p>January/ February</p>	<p>Rational Expressions Ratios & Proportions Percents Negative Exponents AE 2.7, 2.8, 2.10, 2.11, 2.12</p>	<ul style="list-style-type: none"> • Simply ratios • Solve proportions • Solve equations with fractional coefficients • Simplify expressions having negative and zero exponents 	<ul style="list-style-type: none"> • Daily homework • Boardwork • Quizzes • Tests • Design a golf hole • Cooperative group work
<p>January/ February Continued</p>	<p>Graphing AE 2.7, 2.8, 2.10, 2.11</p> <p>Review for Achievement tests (1 week)</p>	<ul style="list-style-type: none"> • Be able to create and interpret graphs 	

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March	Polynomial division Linear equations with 2 variables Slope of line Determining equation of line AE 2.7, 2.8, 2.9, 2.11, 2.12	<ul style="list-style-type: none"> • Divide polynomials using long division • Solve equations in two variable over the given domain • Find the slope of a line • Graph a line given the slope and a point • Find the slope-intercept form a of a line • Graph lines using only slope and y-intercept • Find the equation of a line the slope and y-intercept, given the slope and a point, and given two points • Determine the equations of parallel and perpendicular lines 	<ul style="list-style-type: none"> • Daily homework • Boardwork • Quizzes • Tests

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March/ April	Functions System of Equations AE 2.7, 2.8, 2.12	<ul style="list-style-type: none"> • Recognize functional notation • Evaluate a function over a given domain • Use the graphing method, substitution method, linear combination method, to solve systems of linear equations 	<ul style="list-style-type: none"> • Daily homework • Boardwork • Quizzes • Tests
April/ May	Inequalities AE 2.7, 2.8, 2.12	<p>Graph inequalities</p> <p>Transform inequalities</p> <p>Find the solution sets of combined inequalities</p>	<ul style="list-style-type: none"> • Daily homework • Boardwork • Quizzes • Tests