

Scope & Sequence: St. Francis Xavier

8th Grade Accelerated Algebra

Main Resource: Reveal Algebra 1

August/September	October	November	December	January
<p>Begin the year! (5 weeks)</p> <ul style="list-style-type: none"> Introduction to Class, Expectations and Procedures. <p>Module 2 - One Variable Linear Equations & Inequalities</p> <ul style="list-style-type: none"> 2.1 Writing & Interpreting Equations. A.CED.1,A. CED. 3 2.2 Solving One-Step Equations. ACED.1, A.REI.1, A.REI.3 2.3 Solving Multi-Step Equations. A.CED.1, A.REI.3 Review 2.1-2.3 & Quiz 2.4 Solving Equations with the Variable on Each Side. A.CED.1,A. REI. 3 2.5 Solving Equations Involving Absolute Value. A.CED.1,A. REI. 3 2.6 Solving Proportions. 	<p>Module 4 (2 Weeks) Linear and Non-Linear Functions 4.1</p> <p>Graphing Linear Functions A.REI.10, F.IF.7a, F. LE. 5</p> <ul style="list-style-type: none"> 4.2 Rate of Change and Slope. F.IF.6, F.LE.5 4.3 Slope-Intercept Form. A.REI.10, F.IF.7a, F. LE. 5 Review 4.1-4.3 & Quiz 4.3 Expand - Linear Growth Patterns. F. LE. 1a 4.4 Transformations of Linear Functions. F.IF.7a, F. BF.3 4.5 Arithmetic Sequences. F.BF..1a, F.BF.2, F.LE.2 4.6 Piecewise and Step Functions. F.IF.4, F.IF.7b 4.7 Absolute Value Functions. F.IF.7b, F.BF.3 Review Module 4 Module 4 Assessment Pretest Module 5 	<p>Module 7 (3 Weeks) Systems of Linear Equations and Inequalities</p> <ul style="list-style-type: none"> 7.1 Graphing Systems of equations. A.REI.6, A.REI.11 7.2 Substitution. A.CED.3, A.REI.6 7.3 Elimination Using Addition and Subtraction. A.CED.3, A.REI.6 7.4 Elimination Using Multiplication . A.REI.5, A.REI.6 7.5 Systems of Inequalities. A.CED.3, A.REI.12 Review Module 7 Module 7 Assessment Pretest Module 10 	<p>Module 10 (3 Weeks) Polynomials</p> <ul style="list-style-type: none"> 10.1 Adding and Subtracting Polynomials. A.SSE.1a, A.APR.1 10.2 Multiplying Polynomials by Monomials. A. APR.1 10.3 Multiplying Polynomials. A.APR.1 Review 10.1-10.3 & Quiz 10.4 Special Products. A.APR.1 10.5 Using the Distributive Property. A.SSE.2 10.5 Expand - Proving the Elimination Method. A.REI.5 10.6 Factoring Quadratic Trinomials. A.SSE.2 10.7 Factoring Special Products. A.SSE.2 	<p>Module 8 (3 Weeks) Exponents and Roots</p> <ul style="list-style-type: none"> 8.1 Multiplication Properties of Exponents. A.SSE.2, A.SSE.3c 8.2 Division Properties of Exponents. A.SSE.2, A.SSE.3c 8.3 Negative Exponents A.SSE.2 Review 8.1-8.3 & Quiz 8.4 Rational Exponents N.RN.1, N.RN.2 8.5 Simplifying Radical Expressions N.RN.2 8.6 Operations with Radical Expressions. N.RN.2 8.6 Expand - Sums of Products of Rational and Irrational Numbers. N.RN.3 8.7 Exponential Equations. N.RN.2, A.SSE.2 Review Module 8

<p>A.CED.1,A. REI. 3</p> <ul style="list-style-type: none"> • 2.7 Using Formulas. A.REI.3, A.CED.4 • Review Module 2 • Module 2 Assessment • Pretest Module 6 <p>Module 6 - Linear Inequalities</p> <ul style="list-style-type: none"> • 6.1 Solving & Graphing One-Step Inequalities. A.CED.1, A.REI.3 • 6.2 Solving & Modeling Multi-Step Inequalities. A.CED.1, A.REI.3 • 6.3 Solving Compound Inequalities. A.CED.1, A.CED.3 • Review 6.1-6.3 & Quiz • 6.4 Solving Absolute Value Inequalities. A.CED.1, A.CED.3 • 6.5 Graphing Inequalities in Two Variables. A.CED.3, A.REI.12 • Review Module 6 • Module 6 Assessment • Pretest Module 3 <p>Module 3 - Relations and Functions</p>	<p>Module 5 (2 Weeks) Creating Linear Equations</p> <ul style="list-style-type: none"> • 5.1 Writing Equations in Slope-Intercept Form A.CED.2, S.ID.7 • 5.2 Writing Equations in Standard and Point Slope Form A.CED.2, A.CED.3 • 5.3 Scatter Plots and Lines of Fit S.ID.6a, S.ID.6c • Review 5.1-5.3 & Quiz • 5.4 Correlation and Causation S.ID.9 • 5.5 Linear Regression S.ID.6, W.ID.8 • 5.6 Inverses of Linear Functions A.CED.2, F.BF.4a • Review Module 5 • Module 5 Assessment • Pretest Module 7 		<ul style="list-style-type: none"> • Review Module 10 • Module 10 Assessment • Pretest Module 8 	<ul style="list-style-type: none"> • Module 8 Assessment • Pretest Module 9
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<ul style="list-style-type: none">• 3.1 Representing Relations. N.Q.1, F.IF.1• 3.2 Functions. F.IF.1, F.IF.2• 3.3 Linearity and Continuity of Graphs. F.IF.1, F.IF.5• Review 3.1-3.3 & Quiz• 3.4 Intercepts of Graphs. A.REI.10, F.IF.4• 3.5 Shapes of Graphs. F.IF.4• 3.6 Sketching Graphs and Comparing Functions. F.IF.4, F.IF.9• Review Module 3• Module 3 Assessment				
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February	March	April	May/June	
<p>Module 9 (4 Weeks) Exponential Functions</p> <ul style="list-style-type: none"> • 9.1 Exponential Functions. F.IF.7e, F.LE.1c, F.LE.5 • 9.2 Transformations of Exponential Functions. F.IF.7e, F.BF.3 • 9.3 Writing Exponential Functions. F.LE.2, F.LE.5 • Review 9.1-9.3 & Quiz • 9.4 Transforming Exponential Expressions. A.SSE.3c, F.IF.8b • 9.5 Geometric Sequences. F.BF.2, F.LE.2 • 9.6 Recursive Formulas. F.IF.3, F.BF.2 • Review Module 9 • Module 9 Assessment • Pretest Module 11 	<p>Module 11 (4 Weeks) Quadratic Functions</p> <ul style="list-style-type: none"> • 11.1 Graphing Quadratic Functions. F.IF.4, F.IF.7a • 11.2 Transformations of Quadratic Functions. F.IF.7a, F.BF.3 • 11.3 Solving Quadratic Equations by Graphing. F.IF.7a, F.IF.8a • Review 11.1-11.3 & Quiz • 11.4 Solving Quadratic Equations by Factoring. A.SSE.3a, A.REI.4b, F.IF.8a • 11.5 Solving Quadratic Equations by Completing the Square. A.SSE.3a, A.REI.4b, F.IF.8a 	<p>Module 11 (3 weeks) Quadratic Functions. Cont.</p> <ul style="list-style-type: none"> • 11.6 Solving Quadratic Equations by Using the Quadratic Formula. A.CED.1, A.REI.4 • Review 11.4-11.6 & Quiz • 11.7 Solving Systems of Linear and Quadratic Equations. A.CED.2, A.REI.7 • 11.8 Modeling and Curve Fitting. F.LE.1, F.LE.3 • 11.8 Expand - Exponential Growth Patterns • 11.9 Combining Functions. F.BF.1b • Review Module 11 • Module 11 Assessment • Pretest Module 12 	<p>Module 12 (3 weeks) Statistics</p> <ul style="list-style-type: none"> • 12.1 Measure of Center N.Q.1 • 12.2 Representing Data N.Q.1, S.ID.1 • 12.3 Using Data • 12.4 Measures of Spread N.Q.1, S.ID.1 • 12.5 Distributions of Data S.ID.3 • 12.6 Comparing Sets of Data S.ID.2, S.ID.3 • 12.7 Summarizing Categorical Data S.ID.5 	

