

8th Grade (Algebra 1)/Math Curriculum Map

<u>Dates</u>	<u>Units/Curriculum Connections</u>	<u>Standards Met</u>	<u>Assessments</u>	<u>Resources /Materials used</u>
<u>September</u>	Foundations for Algebra Variables and Expressions Order of Operations Properties of Real Numbers Adding, Subtracting, Multiplying, and Dividing Real Numbers The Distributive Property Patterns, Equations, and Graphs	A.SSE.1, A.SSE.1.a, A.REI.1, A.REI.10, A.CED.1, A.CED.2, A.CED.3, N.RN.3	Observations Discussions Classroom Activities Chapter Tests Student Lead Lessons	Problem Solving Strategies Educreation Videos Graph Paper Projector Whiteboard iPads Blocks Computer
<u>October / November</u>	Solving Equations Solving One, Two, and Multi-Step Equations Solving Equations with Variables on Both Sides Literal Equations and Formulas Ratios, Rates, and Conversions Proportions and Percents Percent of Change	A.REI.1, A.REI.3, A.CED.1, A.CED.4, N.Q.1, N.Q.2, N.Q.3	Observations Discussions Classroom Activities Chapter Tests Jeopardy	Problem Solving Strategies Educreation Videos Projector Whiteboard iPads Computer
<u>December</u>	Solving Inequalities Graphing Inequalities Solving Inequalities by Adding, Subtracting, Multiplying, and Dividing Solving Multi-Step Inequalities Sets	A.REI.1, A.REI.3, A.CED.1, A.SSE.1, A.SSE.1.b, N.Q.2	Observations Discussions Classroom Activities Chapter Tests Calendar Trivia	Problem Solving Strategies Educreation Videos Projector Whiteboard iPads Young Minds Trivia

	Compound Inequalities Unions and Intersection of Sets Absolute Value Equations and Inequalities			
<u>January</u>	An Introduction to Functions Using Graphs to Relate Two Quantities Patterns and Linear / Nonlinear Functions Writing and Graphing a Function Rule Formalizing Relations and Functions Arithmetic Sequences	A.REI.10, A.REI.11, A.CED.2, A.SSE.1, A.SSE.1.a, A.SSE.1.b, N.Q.1, N.Q.2, F.IF.1, F.IF.2, F.IF.3, F.IF.4, F.IF.5, F.BF.1, F.BF.1.a, F.BF.2, F.LE.2	Observations Discussions Classroom Activities Chapter Tests World Problem War	Problem Solving Strategies Educreation Videos Pattern Blocks Projector Whiteboard IPads Computer
<u>February</u>	Linear Functions Rate of Change and Slope Direct Variation Slope-Intercept Form Point-Slope Form Standard Form Parallel and Perpendicular Lines Scatter Plots and Trend Lines Graphing Absolute Value Functions	N.Q.1, N.Q.2, A.SSE.1, A.SSE.1.a, A.SSE.2, A.CED.2, F.IF.4, F.IF.6, F.IF.7, F.IF.7.a, F.IF.7.b, F.BF.1, F.BF.1.a, F.BF.3, F.LE.1.b, F.LE.2, F.LE.5, S.ID.6, S.ID.6.a, S.ID.6.c, S.ID.7, S.ID.8, S.ID.9	Observations Discussions Classroom Activities Chapter Tests	Problem Solving Strategies Educreation Videos Graph Paper Projector Whiteboard IPads
<u>March</u>	Systems of Equations and Inequalities Solving Systems by Graphing Solving Systems Using Substitution and Elimination Applications of Linear	A.REI.5, A.REI.6, A.REI.11, A.REI.12, A.CED.3, N.Q.2, N.Q.3	Observations Discussions Classroom Activities Chapter Tests	Problem Solving Strategies Educreation Videos Graph Paper Projector Whiteboard

	Systems Linear Inequalities Systems of Linear Inequalities			IPads
<u>April</u>	Exponents and Exponential Functions Zero and Negative Exponents Multiplying and Dividing Exponents Rational Exponents and Radicals Exponential Functions Exponential Growth and Decay Geometric Sequences	N.RN.1, N.RN.2, A.SSE.1, A.SSE.1.a, A.SSE.1.b, A.SSE.3.c, A.CED.2, F.IF.4, F.IF.5, F.IF.7, F.IF.7.e, F.IF.8, F.IF.8.b, F.IF.9, F.LE.1.c, F.LE.2, F.LE.5, F.BF.1, F.BF.3	Observations Discussions Classroom Activities Chapter Tests	Problem Solving Strategies Educreation Videos Graph Paper Projector Whiteboard IPads
<u>May</u>	Polynomials and Factoring Adding, Subtracting, Multiplying, and Factoring Polynomials Multiplying Binomials and Special Cases Factoring $x^2 + bx + c$ Factoring $ax^2 + bx + c$ Factoring Special Cases Factoring by Grouping	A.APR.1, A.SSE.1, A.SSE.1.a, A.SSE.1.b, A.SSE.2	Observations Discussions Classroom Activities Chapter Tests	Problem Solving Strategies Educreation Videos Ruler Graph Paper Projector Whiteboard IPads
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<p><u>June</u></p>	<p>Quadratic Functions and Equations Quadratic Graphs and Their Properties Quadratic Functions Solving Quadratic Equations The Quadratic Formula and the Discriminant Linear, Quadratic, and Exponential Models Systems of Linear and Quadratic Equations</p>	<p>A.SSE.1, A.SSE.1.a, A.SSE.1.b, A.SSE.3, A.SSE.3.b, A.CED.1, A.CED.2, A.CED.4, F.IF.4, F.IF.5, F.IF.6, F.IF.7, F.IF.7.a, F.IF.7.b, F.IF.8, F.IF.8.a, F.IF.9, F.BF.1, F.BF.3, F.LE.3, N.Q.2, N.Q.3, A.APR.3, A.APR.4, A.REI.1, A.REI.2, A.REI.4, A.REI.4.b, A.REI.7, A.REI.11, S.ID.6.a, S.ID.6.b</p>	<p>Observations Discussions Classroom Activities Chapter Tests</p>	<p>Problem Solving Strategies Educreation Videos Graph Paper Projector Whiteboard iPads</p>

