

8th Grade Math (Algebra 1A) Curriculum Map- GVCS

Month	Standards	Program Materials/Resources	Vocabulary	Assessment
September	<p>8.EE.7a, 8.EE.7b,8.EE.8a, 8.EE.8b, 8.EE.5, 8.EE.6</p> <p>N-Q.1, A-CED.2, Preparation for AREI.1, A-SSE.1(b), A-SSE.2, ASSE.3(c), Preparation for A-CED.1, A-REI.3(b), F-BF.1(a)</p>	<ul style="list-style-type: none"> - eMath Instruction Units 1 - some of eMath Unit A1 	<p><i>Proportional relationship, unit rate, slope – coordinate plane, origin, y-intercept, vertical and horizontal axis – linear equations, solution, coefficients, equations, expressions, distributive property, binomials, equivalent, exponent, trinomial</i></p>	<ul style="list-style-type: none"> • Quizzes (every 4 to 5 lessons) • Unit Assessments • Daily formative assessments
September/October	<p>8.G.5, 8.G.1a-c, 8.G.2, 8.G.3, 8.G.4, 8.G.5</p>	<ul style="list-style-type: none"> - eMath Instruction Units 2, 3 	<p><i>rotation, reflection, translation, line, line segment, angle, parallel, perpendicular, congruent, similar – angle sum, supplementary, complementary, exterior angle, transversal, alternate angle, vertical angle</i></p>	<ul style="list-style-type: none"> • Quizzes (every 4 to 5 lessons) • Unit Assessments • Daily formative assessments • Project
October/November	<p>8.G.1a-c, 8.G.3, 8.G.4, 8.G.5,</p>	<ul style="list-style-type: none"> - eMath Instruction Unit 4 	<p><i>Transformation, rotation, reflection, translation, line, line segment, angle, parallel, congruent, similar – angle sum, exterior angle, transversal – dilations, similar triangles, similar figures</i></p>	<ul style="list-style-type: none"> • Quizzes (every 4 to 5 lessons) • Unit Assessments • Daily formative assessments • Project

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<p>November/December/January</p>	<p>8.EE.5, 8.EE.6, 8.EE.7, 8.F.1, 8.F.2, 8.F.3, 8.F.4</p> <p>A-REI.3, A-SSE.1(b), A-CED.3, AREI.1, A-CED.4, A-CED.1, F-IF.1, F-IF.2, F-IF.7, F-IF.4, N-Q.1, F-IF.5, F-IF.6</p> <p>A-CED.1, F-IF.7, N-Q.1, A-CED.2, FIF.6, F-LE.1, F-LE.2,</p> <p>N-Q.2, F-IF.5, FIF.6, F-BF.1(a), F-LE.5, A-SSE.1(a), FIF.4, A-REI.10, A-REI.12, F-IF.3*, FBF.2</p>	<ul style="list-style-type: none"> - eMath Instruction Units 5 & 6 - elements of eMath Instruction A2, A3, A4 	<p><i>Function, input, output, ordered pair, linear, nonlinear – rate of change, initial value, best fit, strength, correlation, proportional relationship, slope, similarity, system, parallel lines, coordinate plane, Equations, solutions, variable, rational, additive property of equality, multiplicative property of equality, consecutive, constant, inequality, truth value, interval notation, modeling, function notation, min, max, piecewise function, VLT increasing, decreasing, turning point, zeroes, domain, range proportional, unit conversions, slope, y-intercept, linear function, slope-intercept form, parameters, model, output, input, range, domain, linear relationships, vertical,</i></p>	<ul style="list-style-type: none"> • Quizzes (every 4 to 5 lessons) • Unit Assessments • Daily formative assessments • Project
<p>January/February</p>	<p>8.EE.1, 8.EE.2, 8.G.6, 8.G.7, 8.G.8</p> <p>A-SSE.3(c), A-CED.2, F-IF.5, FBF.1(a), F-LE.1(a-c), F-LE.2, F-IF.6, A-CED.1, F-LE.5, F-LE.3, N-Q.2, ASSE.1(a), A-CED.3, F-IF.3</p>	<ul style="list-style-type: none"> - eMath Instruction Units 7 & 8 - eMath Instruction Unit 6A 	<p><i>Triangle, right triangle, angles, acute angle, Pythagorean theorem, roots, perfect squares, perfect cubes, root, cube, radical, cube root, exponent, power, coordinate plane, distance exponent rule, zero exponent, negative exponents, exponential function, base, exponential</i></p>	<ul style="list-style-type: none"> • Quizzes (every 4 to 5 lessons) • Unit Assessments • Daily formative assessments

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			<i>growth, exponential decay, multiplying factor, grow, decay, percent, constant, rate, linear functions, average rate of change, slope, geometric sequences, common ratio, discrete</i>	
March/April	8.G.9	- eMath Instruction Unit 9	<i>Volume, cylinders, cones, spheres, pi, surface area, prism, circumference, area, circle</i>	<ul style="list-style-type: none"> • Quizzes (every 4 to 5 lessons) • Unit Assessments • Project • Daily formative assessments
(Post-Test) April/May/June	8.G.6, 8.G.7, 8.G.8, 8.NS.1, 8.NS.2 A-CED.1, A-REI.5, A-REI.6, A-REI.10, A-CED.3, A-REI.11, A-REI.12	- eMath Instruction Unit 11 - eMath Instruction 5A	<i>integer, exponent, power, system of linear equations, substitution, elimination, Function, input, output, ordered pair, linear, nonlinear, best fit, association, Solution, true, solution set, intersect, tables, modeling, unit prices, algebraic, window, quadratic equation, , system of inequalities, constraints</i>	<ul style="list-style-type: none"> • Quizzes (every 4 to 5 lessons) • Unit Assessments • Daily formative assessments
Notes:	<p>**This is an Algebra 1A course. However, students are still taking the NYS Assessment for Grade 8 Math.</p> <p>**It is also important to note that there are many similarities in the 8th grade standards and the 9th grade standards. Both are listed for clarity.</p> <p>**Formative assessment varies from day to day and topic to topic but does include: spirals, fist to five, self-reflection, thumbs up!, etc.</p>			