

Unit/ School Days/ Month	Standard/Learning Target	Program Materials/Resources	Vocabulary	Assessment
<u>Introduction to Class</u> ~2 Days *September	N/A	Syllabus, Classroom Expectations, Intro to Class	N/A	Expectations Quiz
<u>"The Building Blocks of Algebra"</u> ~15 days *September	MP.1, MP.2, MP.3, MP.4, MP.7, MP.8, A.APR.1, A.SSE.2, A.SSE.3c , A.F.IF.8b *PRIORITY STANDARD	Unit #1 Emathinstuction materials (Lessons 1-11 notes, HW, exit tickets, review packets, etc.) and teacher made materials	Rate, ratio, properties, variables, expression, order of operations, evaluate, commutative, associative, distributive, equivalent, factor, exponents, integer, trinomial, difference, sum, product, quotient, graphing calculator	Exit Tickets, Formative Assessments, Quiz/ Test
<u>"Linear Expression, Equations, and Inequalities"</u> ~14 days *September/October	MP.1, MP.2, MP.3, MP.4, MP.7, A.SSE.1a, A.CED.1, A.CED.2, A.CED.3, A.CED.4, A.REI.1a, A.REI.3	Unit #2 Emathinstuction materials (Lessons 1-10 notes, HW, exit tickets, review packets, etc.) and teacher made materials	Equations, solutions, variable, rational, additive property of equality, multiplicative property of equality, quantities, consecutive, constant, inequality, truth value, interval notation, modeling	Exit Tickets, Formative Assessments, Quiz/ Test
<u>"Functions"</u> ~14 days *October/ November	MP.3, MP.4, MP.5, MP.7, A.REI.3, F.IF.1, F.IF.2, F.IF.4, F.IF.5, F.IF.6, F.IF.7a, F.IF.8a, F.IF.9, F.LE.2, F.LE.5, A.APR.3, A.CED.2, A.CED.3, F.BF.1a	Unit #3 Emathinstuction materials (Lessons 1-9 notes, HW, exit tickets, review packets, etc.) and teacher made materials	Function, rule, input, output, function notation, minimum, maximum, nonlinear, piecewise function, vertical line test, increasing, decreasing, turning point, relative maximum, relative minimum, piecewise linear, zeroes, average rate of change, domain, range	Exit Tickets, Formative Assessments, Quiz/ Test
<u>"Linear Functions"</u> ~19 days *November/ December	MP.1,MP.2, MP.3, MP.4, MP.7, MP.8, F.IF.1, F.IF.3, F.IF.4, F.IF.5, F.IF.6, F.IF.7a, F.IF.7b, F.IF.9, A.CED.2, A.CED.3, A.CED.4, F.BF.1a, F.LE.1a, F.LE.1b, F.LE.2, F.LE.5, A.REI.1a, A.REI.10, A.REI.12	Unit #4 Emathinstuction materials (Lessons 1-14 notes, HW, exit tickets, review packets, etc.) and teacher made materials	Proportional, unit conversions, slope, y-intercept, linear function, slope-intercept form, parameters, model, output, input, range, domain, linear relationships, vertical,	Exit Tickets, Formative Assessments, Quiz/ Test

	*PRIORITY STANDARD		horizontal, HOY, VUX, constant, absolute value, step function, true equation, true inequality, parabola, dashed, shade, solution set, sequence, terms, elements, recursive definition, arithmetic sequence, list	
<u>“Linear Systems”</u> ~12 days *December/ January	MP.1, MP.3, MP.4, MP.5, MP.7, MP.8, A.CED.2, A.CED.3, A.REI.1a, A.REI.3, A.REI.4b, A.REI.6a, A.REI.11, A.REI.12 , A.SSE.1b, A.APR.3, F.IF.7a, F.IF.8a *PRIORITY STANDARD	Unit #5 Emathinstuction materials (lessons 1-8 notes, HW, exit tickets, review packets, etc.) and teacher made materials	Solution, true, solution set, intersect, tables, substitution, elimination, modeling, unit prices, algebraic, window, quadratic equation, system of equations, system of inequalities, constraints,	Exit Tickets, Formative Assessments, Quiz/ Test
<u>“Exponential Algebra and Functions”</u> ~17 days *January/ February	MP.1, MP.2, MP.3, MP.4, MP.5, MP.7, MP.8, F.IF.3, F.IF.5, F.IF.7a, F.IF.9, F.LE.1a, F.LE.1b, F.LE.1c, F.LE.2, F.LE.5, F.BF.1a, A.SSE.2, A.SSE.3c , A.CED.1, A.CED.3, A.REI.1a, A.REI.3 *PRIORITY STANDARD	Unit #6 Emathinstuction and other “Exponents” unit materials (some lesson 1-12 notes, and some other 11 lesson notes, HW, exit tickets, review packets, etc.), and teacher made materials	Exponents, repeatedly, exponent rule, scientific notation, zero exponent, negative exponents, exponential function, base, exponential growth, exponential decay, multiplying factor, grow, decay, percent, constant percent rate, linear functions, average rate of change, slope, geometric sequences, common ratio, discrete	Exit Tickets, Formative Assessments, Quiz/ Test
<u>“Polynomials & Factoring”</u> ~18 days *February/ March	MP.1, MP.2, MP.3, MP.5, MP.7, MP.8, A.SSE.2, A.APR. 1	Unit #7 Other “Polynomials” unit materials (13 lesson notes, HW, exit tickets, review packets, etc.), and teacher made materials	Polynomials, degree, terms, coefficients, powers, exponents, like terms, monomials, binomials, trinomials, distributive property, equivalent product, greatest common factor, conjugate binomials, difference of perfect squares, FOIL, slip-factor-divide-slide	Exit Tickets, Formative Assessments, Quiz/ Test

<p><u>“Quadratic Functions and Their Algebra”</u> ~17 days *March/ April</p> <p style="text-align: center;">&</p> <p><u>“Functions and Their Transformations”</u> ~5 days *April/ May</p>	<p>MP.1, MP.2, MP.3, MP.4, MP.5, MP.7, MP.8, F.IF.4, F.IF.5, F.IF.7a, F.IF.7b, F.IF.8a, F.LE.3, F.LE.5, A.REI.4a, A.REI.4b, A.REI.7a, F.BF.1a, F.BF.3a, A.APR.1, A.APR.3, A.SSE.2, A.SSE.3a, A.CED.3</p>	<p>Unit #8 Emathinstuction and other “Quadratics” unit materials (some lessons 1-12 notes, and some other 15 lesson notes, HW, exit tickets, review packets, etc.), and teacher made materials</p>	<p>Quadratic, leading coefficient, parabola, range, domain, increasing, decreasing, maximum, minimum, standard window, open upwards, open downwards, shifted form, turning point, vertex, completing the square, vertex form, quadratic formula, stretch, compress, flip, zeroes, zero product law, consecutive integers</p>	<p>Exit Tickets, Formative Assessments</p>
	<p>MP.3, MP.4, MP.5, MP.7, F.IF.4, F.IF.5, F.IF.7a, F.IF.7b, F.IF.8a, F.LE.3, F.LE.5, A.REI.4a, A.REI.4b, F.BF.3a, A.APR.3</p>	<p>Unit #10 Emathinstuction materials (some lessons 1-7 notes, HW, exit tickets, review packets, etc.) and teacher made materials</p>	<p>parent function, vertical shift, horizontal shift, vertex form</p>	<p>Exit Tickets, Formative Assessments</p> <p>*much of this unit is covered in the Unit 8 non-emath lessons.</p> <p>Overall: Quiz/ Test</p>
<p><u>“Roots and Irrational Numbers”</u> ~11 days *April/ May</p>	<p>MP.1, MP.4, MP.5, MP.6, MP.7, N.RN.2, N.RN.3a, N.RN.3b, A.REI.4b, F.IF.4, F.IF.7a, F.LE.5</p>	<p>Unit #9 Emathinstuction materials (lessons 1-7 notes, HW, exit tickets, review packets, etc.) and teacher made materials</p>	<p>Square (roots), cube (roots), real numbers, rational numbers, irrational numbers, table, domain, range, inverse, zeroes, factoring, standard form, equivalent functions, quadratic formula, simplest radical form, no solution</p>	<p>Exit Tickets, Formative Assessments, Quiz/ Test</p>
<p><u>“Statistics”</u> ~11 days *May</p>	<p>MP.1, MP.2, MP.4, MP.5, S.ID.1, S.ID.2, S.ID.3, S.ID.5, S.ID.6a, S.ID.7, S.ID.8, S.ID.9, N.Q.1, F.ID.7a, F.LE.5 *PRIORITY STANDARD</p>	<p>Unit #11 Emathinstuction materials (10 lesson notes, HW, exit tickets, review packets, etc.) and teacher made materials</p>	<p>Survey, dot plot, range, quartiles, first quartile, median, third quartile, box plot, box and whiskers plot, measures of central tendency, mean, mode, sample, population, fair, variation, IQR, standard deviation, two way frequency,</p>	<p>Exit Tickets, Formative Assessments, Quiz/ Test</p>

			joint relative frequency, marginal relative frequency, trends, conditional relative frequency, bivariate data, relationship, positive correlation, negative correlation, strong, weak, causal, lurking variable, linear regression, quadratic regression, exponential regression, best fit, predictability, r-value, correlation coefficient, residuals	
<u>End of the Year Review</u> ~18 days *End May/ June	Review all content from the school year in preparation for Regents Exam covering all NYS Standards	Past Regents Exams, Online Resources, and Teacher Created Review Material	All previous content and vocabulary will be addressed	Formative Assessments, June Regents Exam

***Writing emphasis is sprinkled into daily plans within daily “Spiral Reviews” and lessons though out the year.**