

ALL Nextgen standards are written as A1-

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Curriculum Map

Time	NY Standards	Concepts (Unit/Theme)	Student Objectives The student will... (TSW)	Essential Questions	Assessments	Vocabulary	Resources
15 days	A-SSE.1 N-Q.1 A-SSE.2 A-CED.2 A-CED.1 A-REI.1 A-SSE.3	Unit 1: The Blocks of Algebra	<ul style="list-style-type: none"> Solve problems dealing with rates and patterns Understand variables and expressions Use the commutative, associative and distributive properties See structure in equivalent expressions Use exponents as repeated multiplication Translate English to Algebra 	<p>How can you represent quantities, patterns, and relationships?</p> <p>How can properties be used to compute more efficiently?</p> <p>How are properties related to Algebra?</p> <p>Why is a universally accepted set of rules for evaluating a mathematical expression essential?</p>	Bell ringers Homework Quizzes Test Exit tickets Supplemental classwork	Algebraic expression, coefficient, equivalent expressions, evaluate, integers, like terms, order of operations, real number, simplify, term variable, associative, commutative, distributive, rates	Emathinstruction Test wizard Google classroom Castle learning Youtube Mathaids Kahn academy

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22 days	A-CED.1 A-REI.3 A-REI.1 A-CED.3 A-CED.4 A-SSE.1(b)	Unit 2: Linear Expressions, Equations, and Inequalities	<ul style="list-style-type: none"> Solve one step equations in one variable Solve two step equations in one variable Solve multi-step equations in one variable Solve equations with variable on both sides Identify equations that are identities or have no solution Rewrite and use literal equations and formulas Solve linear word problems Justify steps in solving an equation Solve Inequalities Use interval notation Model with inequalities Solve Consecutive Integer problems Solve compound inequalities 	<p>Can equations that appear to be different be equivalent?</p> <p>How can you solve equations?</p> <p>What kinds of relationships can proportions represent?</p>	Bell ringers Homework Quizzes Test Exit tickets Supplemental classwork	Equation, Inequality, equivalent equations, formula, inverse operations, literal equation, expression, linear, justify, compound inequalities, interval notation, at least, at most, sum, difference, product, quotient, less than, subtracted from, twice, square, constant	Emathinstructio Test wizard Google classroom Castle learning Youtube Mathaids Kahn academy

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16 days	F-IF.1 F-IF.2 F-IF.7(a) F-IF.4 F-IF.5 F-IF.6 N-Q.1	Unit 3: Functions	<ul style="list-style-type: none"> Find domain and range and use function notation Write equations that represent functions Determine whether a relation is a function Understand Function notation Find the average rate of change Graph equations that represent functions Use the graphing calculator to graph functions and identify tables 	<p>How can you represent and describe functions?</p> <p>Can functions describe real-world situations?</p>	Bell ringers Homework Quizzes Test Exit tickets Supplemental classwork	Average rate of change, slope, relation, function, vertical line test, graph, table, domain, range, function notation, table	Emathinstruction Test wizard Google classroom Castle learning Youtube Mathaids Kahn academy
25 days	F-IF.7(a) A-CED.2 N-Q.1 F-IF.6 F-LE.1(a) F-LE.2 N-Q.2 F-IF.5 F-BF.1(a) F-LE.1(b)	Unit 4: Linear Functions and Arithmetic Sequences	<ul style="list-style-type: none"> Represent mathematical relationships using graphs Identify and represent patterns that describe linear functions Identify and represent patterns that describe nonlinear functions Identify and extend patterns in sequences Represent arithmetic sequences using function 	<p>What does the slope of a line indicate about the line?</p> <p>What information does the equation of a line give you?</p>	Bell ringers Homework Quizzes Test Exit tickets Supplemental classwork	Continuous graph, dependent variable, discrete graph, domain, function, independent variable, linear function, nonlinear function, range, recursive formula, relation, sequence, slope, y-intercept, absolute value, step functions, inequalities, solutions, solution set, arithmetic sequence, explicit formula, vertical, horizontal, proportional, non-	Emathinstruction Test wizard Google classroom Castle learning Youtube Mathaids Kahn academy

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	F-LE.5 ASSE.1(a) A-CED.3 F-IF.7(b) F-IF.4 A-REI.10 A-REI.12 F-IF.3 F-BF.1(a)		notation <ul style="list-style-type: none"> Graph absolute value and step functions Identify proportional and non-proportional relationships Convert units Write equations in slope intercept form Model with linear functions Graph vertical and Horizontal lines Graph linear inequalities 			proportional, ordered pair, Solution, origin	
13 days	A-CED.2 A-REI.6 A-REI.10 A-REI.5 A-CED.3 A-REI.11 A-REI.12	Unit 5: Systems of Equations and Inequalities	<ul style="list-style-type: none"> Find a solution to a system Solve by graphing Solve by substitution Solve by elimination Solve systems of inequalities 		Bell ringers Homework Quizzes Test Exit tickets Supplemental classwork	Solution, solution set, solving graphically, solving algebraically, elimination, substitution, inequalities, inconsistent system	Emathinstruction Test wizard Google classroom Castle learning Youtube Mathaids Kahn academy

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20 days	A-SSE.3(c) A-CED.2 F-IF.5 F-BF.1(a) F-LE.1(c) F-LE.2 F-IF.6 A-CED.1 F-LE.5 F-LE.3 N-Q.2 A-SSE.1(a) A-CED.1 F-IF.6 F-LE.1(a) F-BF.1(a) F-LE.1(b) A-CED.3 F-IF.3	Unit 6: Exponents, Exponents and More Exponents	<ul style="list-style-type: none"> Simplify expressions involving exponents Rewrite zero and negative exponents Solve exponential growth problems Understand exponential functions Understand percent Solve problems with percent increase and decrease Understand the difference between linear and exponential Understand geometric sequences 	<p>How can you represent numbers less than 1 using exponents?</p> <p>How can you simplify expressions involving exponents?</p> <p>What are the characteristics of exponential functions?</p>	Bell ringers Homework Quizzes Test Exit tickets Supplemental classwork	Exponents, zero exponent, simplify, expressions, negative exponents, exponential growth, exponential functions, percent, percent increase, percent decrease, linear vs. exponential, geometric sequence, common ratio, interest, compound interest, interest, exponential decay, sales tax, discount	Emathinstruction Test wizard Google classroom Castle learning Youtube Mathaids Kahn academy
15 days	A-APR.1 A-SSE.1(a) A-SSE.1(b) A-SSE.2	Unit 7: Polynomials	<ul style="list-style-type: none"> Understand polynomials Add and subtract polynomials Multiply polynomials Factor polynomials Factor conjugate pairs Factor Trinomials 	<p>Can two algebraic expressions that appear to be different be equivalent?</p> <p>How are the properties of real numbers related to polynomials?</p>	Bell ringers Homework Quizzes Test Exit tickets Supplemental classwork	Polynomial, monomial, binomial, trinomial, factor, conjugate pairs, DOTS, distribute, product, sum, difference, subtracted from, coefficient, perfect square, Perfect square trinomial, degree of a monomial, degree of a polynomial, standard form	Emathinstruction Test wizard Google classroom Castle learning Youtube Mathaids Kahn academy

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20 days	A-CED.3 F-IF.4 F-IF.7(a) F-BF.3 A-SSE.3(b) F-IF.8(a) F-IF.9 A-APR.3 A-REI.4(b) A-CED.1	Unit 8: Quadratic Functions and their Algebra	<ul style="list-style-type: none"> Understand Quadratic functions Identify characteristics of a parabola Shift a parabola Complete the square of a quadratic Stretch a parabola Find the zeros of a quadratic Use the zero product law Solve quadratic word problems 	<p>What are the characteristics of quadratic functions?</p> <p>How can you solve a quadratic equation?</p> <p>How can you use functions to model real-world situations?</p>	Bell ringers Homework Quizzes Test Exit tickets Supplemental classwork	Maximum, minimum, quadratic, parabola, axis of symmetry, roots, zeros, x-intercepts, y-intercept, complete the square, vertical shift, horizontal shift, stretch, narrower, wider, opens upward, opens downward, vertex, turning point, area	Emathinstruction Test wizard Google classroom Castle learning Youtube Mathaids Kahn academy
20 days	ASSE.1(b) A-REI.4(b) N-RN.3 A-REI.4(a) A-SSE.3(a) F-IF.1 F-IF.6 F-IF.7(b) F-BF.3	Unit 9: Roots and Irrational Numbers	<ul style="list-style-type: none"> Understand square roots Identify and understand irrational numbers Shift square root functions Solve quadratics using inverse operations Find zeros by completing the square Solve quadratics using the quadratic formula Understand cube roots 	<p>How are radical expressions represented?</p> <p>What are the characteristics of square root functions?</p>	Bell ringers Homework Quizzes Test Exit tickets Supplemental classwork	Perfect square, square root, irrational, rational, whole numbers, integers, counting numbers, real numbers, inverse operations, quadratic formula, cube roots	Emathinstruction Test wizard Google classroom Castle learning Youtube Mathaids Kahn academy

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20 days	N-Q.1 S-ID.1 S-ID.3 S-ID.2 N-Q.2 S-ID.5 S-ID.6(a) S-ID.6(c) S-ID.9 S-ID.8 S-ID.6(b)	Unit 10: Statistics	<ul style="list-style-type: none"> Understand graphical displays of data Read quartiles and box plots Find measures of central tendency Understand variation within a data set Draw conclusions from two-way frequency tables Bivariate data analysis Find linear regression on a calculator Find other types of regression Quantify Predictability Understand residuals 	<p>How can collecting and analyzing data help you make decisions or predictions?</p> <p>How can you make and interpret different representations of data?</p>	Bell ringers Homework Quizzes Test Exit tickets Supplemental classwork	Measure of central tendency, outlier, lower quartile, dot plot, upper quartile, median, average, mean, range, interquartile range, linear regression, exponential regression, quadratic regression , bivariate, data, box plots, frequency tables, residuals , variation, correlation coefficient	Emathinstruction Test wizard Google classroom Castle learning Youtube Mathaids Kahn academy

Reflection:

Grade 9

Subject: Algebra I

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Prepared By: J. Ferris
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