

Algebra 1 Guaranteed/Viable Curriculum

	Essential Standard	Proficiency Timeline
A.SSE.1	Interpret expressions that represent a quantity in terms of its context. a. Interpret parts of an expression, such as terms, factors, and coefficients. b. Interpret complicated expressions by viewing one or more of their parts as a single entity.	1st Nine Weeks
N.Q.1	Use units as a way to understand problems and to guide the solution of multi-step problems; choose and interpret units consistently in formulas; choose and interpret the scale and the origin in graphs and data displays.	1st Nine Weeks
A.CED.1	Create equations and inequalities in one variable and use them to solve problems.	1st Nine Weeks
A.REI.1	Explain each step in solving a simple equation as following from the quality of numbers asserted at the previous step, starting from the assumption that the original equation has a solution.	1st Nine Weeks
A.REI.3	Solve linear equation and inequalities in one variable, including equations with coefficients represented by letters.	1st Nine Weeks
A.SSE.2	Use the structure of an expression to identify ways to rewrite it.	2nd Nine Weeks
A.CED.2	Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.	2nd Nine Weeks
A.REI.6	Solve systems of linear equations exactly and approximately focusing on pairs of linear equations in two variables.	2nd Nine Weeks
F.IF.1	Understand that a function from one set to another set assigns to each element of the	2nd Nine

Algebra 1 Guaranteed/Viable Curriculum

	domain exactly one element of the range.	Weeks
F.LE.2	Construct linear and exponential functions, including arithmetic and geometric sequences, given a graph, a description of a relationship, or two input-output pairs.	2nd Nine Weeks
N.RN.1	Explain how the definition of the meaning of rational exponents follows from extending the properties of integer exponents to those values, allowing for a notation for radicals in terms of rational exponents.	3rd Nine Weeks
A.SSE.3	Choose and produce an equivalent form of an expression to reveal and explain properties of the quantity represented by the expression.	3rd Nine Weeks
A.APR.1	Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.	3rd Nine Weeks
A.REI.4	Solve quadratic equations in one variable.	3rd Nine Weeks
F.IF.8	Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function. <ul style="list-style-type: none"> a. Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context. b. Use the properties of exponents to interpret expressions for exponential functions. 	3rd Nine Weeks
G.SRT.8	Use trigonometric ratios and the Pythagorean Theorem to solve right triangles in applied problems.	4th Nine Weeks
S.ID.1	Represent data with plots on the real number line.	4th Nine Weeks

Algebra 1 Guaranteed/Viable Curriculum

S.CP.1	Describe events as subsets of a same space using characteristics of the outcomes, or as unions, intersections, or complements of other events.	4th Nine Weeks
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