



Resource Algebra 1 Semester 2 Final Assessment Blueprint

Year Created: 2024-2025

Method of Delivery: Online

Subject: Math

Administration Window: May Common Finals

Resources

[Resource Algebra 1 Curriculum Map](#)

Standards At-A Glance

Standard	Number of Items	Standard Description
MA.4.G.A.3	1	Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.
MA.9-12.A1.A-APR.A.1	3	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.
MA.9-12.A1.A-APR.B.3	1	Identify zeros of polynomials when suitable factorizations are available, and use the zeros to construct a rough graph of the function defined by the polynomial. Focus on quadratic and cubic polynomials in which linear and quadratic factors are available.
MA.9-12.A1.A-REI.B.4	3	Solve quadratic equations in one variable.
MA.9-12.A1.A-SSE.A.2	1	Use structure to identify ways to rewrite numerical and polynomial expressions. Focus on polynomial multiplication and factoring patterns.
MA.9-12.A1.A-SSE.B	1	Write expressions in equivalent forms to solve problems.
MA.9-12.A1.F-IF.B.4	1	For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Include problem-solving opportunities utilizing real-world context. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums. Focus on linear, quadratic, exponential and piecewise-defined functions (limited to absolute value and step).
MA.9-12.A1.F-LE.A.2	1	Construct linear and exponential functions, including arithmetic and geometric sequences, given a graph, a description of a relationship, or input/output pairs.
MA.9-12.A1.F-LE.A.3	1	Observe, using graphs and tables, that a quantity increasing exponentially eventually exceeds a quantity increasing linearly or quadratically.
MA.9-12.A1.F-LE.B.5	1	Interpret the parameters in a linear or exponential function with integer exponents utilizing real world context.
MA.9-12.A2.A-REI.B.4	1	Solve quadratic equations in one variable.
MA.9-12.A2.A-SSE.A.2	3	Use structure to identify ways to rewrite polynomial and rational expressions. Focus on polynomial operations and factoring patterns.
MA.9-12.A2.N-RN.A.2	1	Rewrite expressions involving radicals and rational exponents using the properties of exponents.

*Some items may be tagged to more than one standard.

Depth of Knowledge

DOK	Number of Items
Level 1: Recall	9
Level 2: Skill/Concept	10
Level 3: Strategic Thinking	0

Item Types Included

Type	Number of Items	Description
MC	18	Multiple Choice - Select one answer
MP	1	Multi-Part - A question with more than one part