ALGEBRA 1 CURRICULUM

12 CCSS-ALIGNED UNITS

1. EQUATIONS AND INEQUALITIES
2. PROPERTIES OF FUNCTIONS
3. LINEAR FUNCTIONS
4. APPLYING LINEAR FUNCTIONS
5. SYSTEMS
6. EXPONENTS AND POLYNOMIALS
7. FACTORING POLYNOMIALS
8. QUADRATIC FUNCTIONS
9. SOLVING QUADRATIC EQUATIONS
10. EXPONENTIAL FUNCTIONS
11. SEQUENCES (MINI-UNIT)
12. DATA AND STATISTICS

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CCSS	TOPIC	UNIT
N.Q.1	Use units to solve problems	1: Equations and Inequalities 2: Properties of Functions 3: Linear Functions
N.Q.2	Define appropriate quantities for modeling	12: Data and Statistics
N.Q.3	Choose a level of accuracy appropriate given a set of data	4: Applying Linear Relationships
N.RN.1	Laws of rational exponents	6: Exponents and Polynomials
N.RN.2	Simplifying expressions using property of exponents	6: Exponents and Polynomials
N.RN.2	Simplifying radicals	9: Quadratic Equations
A.SSE.1	Interpret parts of an expression	1: Equations and Inequalities 10: Exponential Functions
A.SSE.2	Identify ways to rewrite an expression	6: Exponents and Polynomials 7: Factoring Polynomials
A.SSE.3	Produce equivalent forms of expression	9: Solving Quadratic Equations 10: Exponential Functions
A.APR.1	Add, subtract, and multiply polynomials	6: Exponents and Polynomials 7: Factoring Polynomials
A.CED.1	Create equations and inequalities in one variable	1: Equations and Inequalities 9: Solving Quadratic Equations 10: Exponential Functions
A.CED.2	Create and graph equations with two variables	3: Linear Functions
A.CED.3	Understand constraints in systems of equations	5: Systems
A.CED.4	Rearrange formulas to highlight a certain variable	1: Equations and Inequalities
A.REI.1	Explain the steps of solving equations	1: Equations and Inequalities

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CCSS	TOPIC	UNIT
A.REI.3	Solve linear equations and inequalities	1: Equations and Inequalities
A.REI.4	Solve quadratic equations	9: Solving Quadratic Equations
A.REI.5	Solve a system by elimination	5: Systems
A.REI.6	Solve a system by graphing	5: Systems
A.REI.7	Solve a system of a linear equation and quadratic equation	9: Solving Quadratic Equations
A.REI.10	Understanding the graph of an equation is the set of solutions	3: Linear Functions
A.REI.11	Solve a system of equations using substitution	5: Systems
A.REI.12	Graph the solutions to linear inequalities and a system of inequalities	3: Linear Functions 5: Systems
F.IF.1	Identifying functions	2: Properties of Functions
F.IF.2	Evaluating functions	2: Properties of Functions
F.IF.3	Recognize sequences are functions	11: Sequences
F.IF.4	Graph functions and identify key features of the graph	3: Linear Functions 8: Quadratic Functions 10: Exponential Functions
F.IF.5	Domain and range of functions	2: Properties of Functions 8: Quadratic Functions 10: Exponential Functions
F.IF.6	Average rate of change	3: Linear Functions 10: Exponential Functions
F.IF.7A	Graph linear and quadratic functions	3: Linear Functions 8: Quadratic Functions
F.IF.7B	Graph square root, cube root, and piecewise functions	2: Properties of Functions 4: Applying Linear Relationships

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CCSS	TOPIC	UNIT
F.IF.8A	Factor and complete the square of quadratic functions to determine zeros and extrema	9: Solving Quadratic Equations
F.IF.8B	Exponential growth and decay	10: Exponential Functions
F.IF.9	Compare properties of functions	8: Quadratic Functions
F.BF.1A	Writing linear and exponential functions	3: Linear Functions 10: Exponential Functions
F.BF.2	Writing arithmetic and geometric sequences	11: Sequences
F.BF.3	Transformations of functions	4: Applying Linear Relationships 8: Quadratic Functions
F.BF.4	Inverse functions	2: Properties of Functions
F.LE.1	Compare linear and exponential functions	10: Exponential Functions
F.LE.2	Construct linear and exponential functions	3: Linear Functions 10: Exponential Functions 11: Sequences
F.LE.3	Comparing the growth of functions	10: Exponential Functions
F.LE.5	Parameters of function in a given context	2: Properties of Functions 10: Exponential Functions.
S.ID.1	Data plots on number lines	12: Data and Statistics
S.ID.2	Compare center and spread of data sets	12: Data and Statistics
S.ID.3	Interpreting shape and spread of data	12: Data and Statistics
S.ID.5	Summarize categorical data	12: Data and Statistics
S.ID.6	Fit a function to data given as scatter plots and tables	4: Applying Linear Relationships 8: Quadratic Functions

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S.ID.7	Rate of change and intercepts of linear models	4: Applying Linear Relationships
S.ID.8	Correlation coefficient	4: Applying Linear Relationships
S.ID.9	Correlation and causation	4: Applying Linear Relationships
G.GPE.5	Slopes of parallel and perpendicular lines	4: Applying Linear Relationships

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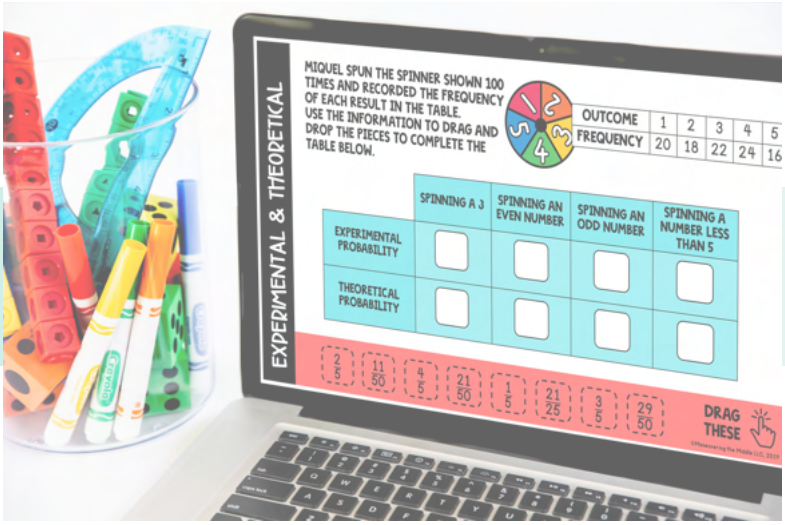
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