

Algebra 1 (1200310) & Algebra 1 Honors (1200320)

Coope and Coquence

In Algebra 1, instructional time will emphasize five areas:

- 1. performing operations with polynomials and radicals, and extending the Laws of Exponents to include rational exponents;
- 2. extending understanding of functions to linear, quadratic and exponential functions and using them to model and analyze real world relationships;
- 3. solving quadratic equations in one variable and systems of linear equations and inequalities in two variables;
- 4. building functions, identifying their key features and representing them in various ways; and
- 5. representing and interpreting categorical and numerical data with one and two variables

	Unit	Benchmark	Instructional Guides	Assessment
	1 Solving Equations and Inequalities <i>(approx. 17 days)</i>	MA.912.AR.1.2 - Literal Equations	Solving Linear Equations (6 days) Literal Equations and Formulas (2 days) Solving Inequalities (4 days) Absolute Value Equations (3 days) HONORS: Absolute Value Equations and Inequalities	Unit 1 Blueprint Unit 1 Test
		MA.912.AR.2.1 - Write & Solve Multi -Step Linear Equations		
		MA.912.AR.2.6 - Write/Solve One Variable Inequalities		
		MA.912.AR.4.1 - Write/Solve One Variable Abs. Value Equations		
		HONORS: MA.912.AR.4.2 - Absolute Value Inequalities		
	2 Linear Equations (approx. 12 days)	MA.912.AR.1.1 - Parts of an Equation	Forms of Linear Equations (6 days) Parallel and Perpendicular Lines (3 days)	Unit 2 Blueprint Unit 2 Test
		MA.912.AR.2.2 - Write a Two Variable Equation		
		MA.912.AR.2.3 - Parallel & Perpendicular Equations		
		MA.912.AR.2.4 - Graph & Interpret Linear Equations		
1		Supporting benchmarks: MA.912.AR.1.2		
	3 Linear and Absolute Value Functions <i>(approx. 19 days)</i>	MA.912.AR.2.5 - Real World Linear Functions	Domain and Range of Functions (2 days) Linear Functions (6 days) Absolute Value Functions (5 days)	Unit 3 Blueprint Unit 3 Test
		MA.912.AR.4.3 - Graph & Interpret Absolute Value Functions		
		MA.912.F.1.2 - Evaluate and interpret functions		
		MA.912.F.1.5 - Compare Key Features of Linear Functions		
		MA.912.F.1.6 - Compare functions		
		MA.912.F.2.1 - Transformations of Functions		
		MA.912.FL.3.2 - Real-World Interest		
		MA.912.FL.3.4 - Relationship Between Interest & Functions		
		Supporting benchmarks : MA.912.AR.2.4, MA.912.AR.1.1		
	4 Systems of Equations and Inequalities <i>(approx. 15 days)</i>	MA.912.AR.2.7 - Write linear inequalities	Solving Systems of Equations Algebraically (9 days) Linear Inequalities & Systems of Linear Inequalities (4 days)	Unit 4 Blueprint Unit 4 Test
		MA.912.AR.2.8 - Graph linear inequalities		
		MA.912.AR.9.1 - Solve linear system of equations		
		MA.912.AR.9.4 - Graph system of linear inequalities		
2		MA.912.AR.9.6 - Constraints as systems		
		MA.912.AR.5.3 - Exponential Growth or Decay	Laws of Exponents (2 days) Rational Exponents and Properties of Exponents (4 days) Radical Expressions (3 days) Exponential Functions	Unit 5 Blueprint Unit 5 Test
		MA.912.AR.5.4 - Write Exponential Functions		
		MA.912.AR.5.6 - Graphs of Exponential Functions		
	Functions (approx. 12 days)	MA.912.NSO.1.1 - Equivalent Expressions w/ Rational Exponents		



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	MA.912.NSO.1.2 - Properties of Exponents	(4 days)	
	MA.912.NSO.1.4 - Operations with Radicals		
	Supporting benchmarks: MA.912.AR.1.1 , MA.912.F.1., MA.912.F.1.8		
6	MA.912.AR.1.3 - Add, Subtract, Multiply polynomials	Adding and Subtracting Polynomials (2 days) Multiplying Polynomials (4 days) Factoring Polynomials (10 days)	Unit 6 Blueprint Unit 6 Test
Polynomials and Factoring	MA.912.AR.1.4 - Divide polynomials		
(approx. 18 days)	MA.912.AR.1.7 - Factor polynomials		
	MA.912.AR.3.1 - Write & Solve One Variable Quadratics	Key Features of a Quadratic Function (2 days) Quadratic Functions in Vertex & Standard Form (5 days) Modeling with Quadratic Functions (3 days) Linear, Exponential, and Quadratic Models (2 days) Solving Quadratic Equations Using Graphs and Tables (2 days) Solving Quadratic Equations Algebraically (8 days) The Quadratic Formula and the Discriminant (3 days)	Unit 7 & 8 Blueprint Unit 7 & 8 Test
	MA.912.AR.3.4 - Write a Quadratic Function		
	MA.912.AR.3.5 - Write a Quadratic Function from Zeros & Point		
7 & 8 Quadratic Functions & Solving Quadratic Equations (approx. 22 days)	MA.912.AR.3.6 - Determine & Interpret Vertex/Zeros of a Quadratic		
	MA.912.AR.3.7 - Graph Quadratics & Key Features		
	MA.912.AR.3.8 - Solve real world quadratic functions		
	MA.912.F.1.1 - Classify Functions - Mathematical		
	MA.912.F.1.2 - Evaluate and interpret functions		
	MA.912.F.1.3 - Average Rate of Change		
	MA.912.F.1.6 - Compare functions		
	MA.912.F.1.8 - Classify Functions Real-world		
	MA.912.F.2.1 - Transformations of Functions		
	Supporting Benchmarks: MA.912.AR.1.1, MA.912.AR.1.2		
(approx. 13 days)	MA.912.DP.1.1 - Numerical/Categorical & Univariate/Bivariate	Representing Numerical Data (2 days) Representing Categorical Data (2 days) Representing Bivariate Data (2 days) Analyzing Lines of Fit (2 days) Analyzing Two-Way Frequency Tables (2 days)	Unit 10 Blueprint Unit 10 Test
	MA.912.DP.1.2 - Interpret Data Displays		
	MA.912.DP.1.3 - Correlation and Causation		
	MA.912.DP.1.4 - Estimate Population (Sample & Margin of Error)		
	MA.912.DP.2.4 - Line of Fit		
	MA.912.DP.2.6 - Residuals		
	MA.912.DP.3.1 - Frequency Tables		
	HONORS: MA.912.DP.2.5, MA.912.DP.3.2, MA.912.DP.3.3		
9 Working with Functions (approx. 10 days)	MA.912.F.1.1 - Classify Functions - Mathematical	Square Root, Cubic, and Cube Root Functions (2 days) Analyzing Functions (2 days)	Unit 9 Blueprint Unit 9 Test
	MA.912.F.1.2 - Evaluate and interpret functions		
	MA.912.F.1.3 - Average Rate of Change		
	MA.912.F.1.6 - Compare functions		
	MA.912.F.1.8 - Classify Functions Real-world		
	MA.912.F.2.1 - Transformations of Functions		



PERSONAL | PASSIONATE | PROGRESSIVE

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HONORS: MA.912.F.2.3, MA.912.F.3.1

EOC Review & Resources

* Days are estimated and may be adjusted based on the release of the 2022/024 state assessment calendar.