

Unit 1: Introduction to Functions		
Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.912.F.1.1	1.1 Classifying Parent Functions
	MA.912.F.1.2	1.2 Evaluating Functions in Function Notation
	MA.912.F.1.2	1.3 Interpreting Function Notation in the Real World
	MA.912.NSO.1.1	1.4 Applying the Laws of Exponents
	MA.912.NSO.1.1	1.5 Exploring Rational Exponents
	MA.912.NSO.1.1	1.6 Writing Equivalent Expressions Using Rational Exponents
	MA.912.NSO.1.1	1.7 Evaluating Exponential Expressions
	MA.912.NSO.1.4	1.8 Equivalent Radical Expressions
	MA.912.NSO.1.4	1.9 Adding and Subtracting Radical Expressions
	MA.912.NSO.1.4	1.10 Multiplying and Dividing Radical Expressions
		Unit 1 Assessment
Week 1 - Week 3 8/14 - 9/1		<i>Approximately 15 days total including: 1 Flex Day, 2 STAR testing days, 1 On-Ramp Testing day</i>
Unit 2: Algebraic Expressions		
Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.912.NSO.1.2	2.1 Applying Product Laws of Exponents to Algebraic Expressions
	MA.912.NSO.1.2	2.2 Applying Quotient Laws of Exponents to Algebraic Expressions
	MA.912.NSO.1.2	2.3 Applying Exponent Laws to Generate Equivalent Algebraic Expressions
	MA.912.AR.1.3	2.4 Introducing Polynomials
	MA.912.AR.1.3	2.5 Adding and Subtracting Polynomials
	MA.912.AR.1.3	2.6 Multiplying Binomials with Algebra Tiles
	MA.912.AR.1.3	2.7 Multiplying Binomials and Polynomials
	MA.912.AR.1.3	2.8 Adding, Subtracting, and Multiplying Polynomials Using More Than One Operation
	MA.912.AR.1.4	2.9 Dividing Polynomials
		Unit 2 Assessment
Week 4 - Week 6 9/5 - 9/19		<i>Approximately 11 days total included: 1 Flex Day</i>

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Unit 3: Linear Functions

Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.912.AR.1.2, MA.912.F.1.5	3.1 Rearranging Equations of Lines
	MA.912.AR.2.2, MA.912.AR.1.2	3.2 Writing Equations of Lines
	MA.912.AR.2.2, MA.912.AR.1.2	3.3 Writing Equations of Lines from Tables or Graphs
	MA.912.AR.2.2, MA.912.AR.1.2	3.4 Writing Equations of Lines from Written Descriptions
		Unit 3 Assessment – Part 1
	MA.912.DP.2.4	3.5 Scatter Plots and Linear Relationships
	MA.912.DP.2.4	3.6 Fitting Linear Functions to Data
	MA.912.DP.2.4	3.7 Interpreting Linear Models
	MA.912.DP.2.6	3.8 Analyzing Residuals
		Unit 3 Assessment – Part 2
Week 6 - Week 8 9/20 - 10/4		<i>Approximately 12 days total including: ½ day on 9/20, 1 Flex Day</i>

Unit 4: Key Features of Linear Functions

Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.912.F.1.5	4.1 Understanding Set-Builder Notation
	MA.912.AR.2.4	4.2 Identifying Key Features of Lines from Graphs
	MA.912.AR.2.4	4.3 Identifying Key Features of Lines from Tables and Equations
	MA.912.AR.2.4	4.4 Relating Key Features of Lines to Real-World Contexts
	MA.912.AR.2.4	4.5 Graphing and Interpreting Key Features of Lines
	MA.912.AR.2.5, MA.912.F.1.2	4.6 Determining Constraints
	MA.912.AR.2.5	4.7 Solving Problems Modeled with Linear Functions
	MA.912.F.1.5	4.8 Comparing Linear Functions
	MA.912.AR.2.3	4.9 Discovering Relationships of Parallel and Perpendicular Lines
	MA.912.AR.2.3	4.10 Writing Equations of Parallel Lines
	MA.912.AR.2.3	4.11 Writing Equations of Perpendicular Lines
	MA.912.AR.2.3	4.12 Writing Equations of Parallel and Perpendicular Lines
		Unit 4 Assessment
Week 8 - Week 11 10/5 - 10/26		<i>Approximately 15 days total including: 2 Flex Days</i>

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Unit 5: Solving Equations

Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.912.AR.2.1	5.1 Solving Multi-Step Equations
	MA.912.AR.2.1, MA.912.AR.1.2	5.2 Solving Equations and Rearranging Formulas
	MA.912.AR.2.1, MA.912.AR.1.2, MA.912.AR.9.6	5.3 Interpreting Equations
	MA.912.AR.2.1	5.4 Writing and Solving Real-World Equations
	MA.912.AR.2.1, MA.912.AR.9.6	5.5 Equations and Solutions in the Real World
	MA.912.AR.9.1	5.6 Exploring Solutions to Systems of Equations
	MA.912.AR.9.1, MA.912.AR.9.6	5.7 Solving Systems of Equations by Graphing
	MA.912.AR.9.1, MA.912.AR.9.6	5.8 Solving Systems of Equations by Substitution
	MA.912.AR.9.1	5.9 Solving Systems of Equations by Elimination
	MA.912.AR.9.1, MA.912.AR.9.6	5.10 Solving Systems of Equations by Elimination and Interpreting Solutions
	MA.912.AR.9.1, MA.912.AR.9.6	5.11 Writing and Solving Systems of Equations for Real-World Contexts
		Unit 5 Assessment
Week 11 - Week 14 10/27 - 11/15		<i>Approximately 13 days total including: 1 Flex Day</i>

Unit 6: Linear Inequalities

Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.912.AR.2.6	6.1 Solving Linear Inequalities in One Variable
	MA.912.AR.2.6	6.2 Solving Compound Inequalities
	MA.912.AR.2.6	6.3 Writing and Solving Inequalities
	MA.912.AR.2.6, MA.912.AR.2.8	6.4 Connecting One-Variable Inequalities to Two-Variable Inequalities
	MA.912.AR.2.8	6.5 Graphing Two-Variable Linear Inequalities
	MA.912.AR.2.8, MA.912.AR.9.6	6.6 Graphing Two-Variable Linear Inequalities for a Real-World Context
	MA.912.AR.2.7	6.7 Writing Two-Variable Linear Inequalities
	MA.912.AR.2.7, MA.912.AR.9.6	6.8 Writing a Two-Variable Linear Inequality to Represent a Real-World Context
	MA.912.AR.9.4	6.9 Exploring Systems of Linear Inequalities
	MA.912.AR.9.4	6.10 Graphing Systems of Linear Inequalities
		Unit 6 Assessment
Week 14 - Week 17 11/16 - 12/7		<i>Approximately 13 days total including: 2 Flex Days</i>

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Unit 7: Rewriting Polynomial Expressions

Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.912.AR.1.7	7.1 Factoring and the Distributive Property
	MA.912.AR.1.7	7.2 Factoring a Trinomial with Algebra Tiles
	MA.912.AR.1.7	7.3 Factoring a Trinomial with a Leading Coefficient of 1
	MA.912.AR.1.7	7.4 Factoring a Trinomial with a Leading Coefficient Greater Than 1
	MA.912.AR.1.7	7.5 Factoring Trinomials
	MA.912.AR.1.7	7.6 Factoring by Grouping
	MA.912.AR.1.7	7.7 Factoring Perfect Square Trinomials
	MA.912.AR.1.7	7.8 Factoring Difference of Two Squares
		Unit 7 Assessment
Week 17 - Week 20 12/8 - 1/12		<i>Approximately 14 days total including: 3 Flex Days, 2 STAR testing days</i>

Unit 8: Quadratic Functions

Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.912.AR.3.7	8.1 Identifying Key Features of Quadratic Functions
	MA.912.AR.3.7	8.2 More Key Features of Quadratic Functions
	MA.912.AR.3.6, MA.912.AR.3.7, MA.912.AR.1.2	8.3 Rewriting Quadratic Equations
	MA.912.AR.3.7, MA.912.AR.3.6	8.4 Graphing Quadratic Equations from Key Features
	MA.912.AR.3.6, MA.912.AR.1.2	8.5 Completing the Square when $a = 1$ Using Algebra Tiles
	MA.912.AR.3.6, MA.912.AR.1.2	8.6 Completing the Square when $a > 1$ Using Algebra Tiles
	MA.912.AR.3.6, MA.912.AR.1.2	8.7 Completing the Square Algebraically
	MA.912.AR.3.8, MA.912.AR.3.6, MA.912.AR.9.6	8.8 Modeling with Quadratics in the Real World
	MA.912.AR.3.8, MA.912.AR.3.6, MA.912.AR.9.6	8.9 Using Key Features to Solve Problems
		Unit 8 Assessment
Week 21 - Week 23 1/16 - 1/30		<i>Approximately 11 days total including: 1 Flex Day</i>

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Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.912.AR.3.5, MA.912.AR.1.2	9.1 Writing a Quadratic Equation Given x -Intercepts and a Point
	MA.912.AR.3.4, MA.912.AR.1.2	9.2 Writing a Quadratic Function from a Graph
	MA.912.AR.3.4, MA.912.AR.1.2	9.3 Writing a Quadratic Function from a Table
	MA.912.AR.3.4, MA.912.AR.1.2	9.4 Writing a Quadratic Function from a Written Description
		Unit 9 Assessment – Part 1
	MA.912.AR.3.1, MA.912.AR.9.6	9.5 Solving Quadratics Using Square Roots
	MA.912.AR.3.1, MA.912.AR.9.6	9.6 Solving Quadratic Equations by Completing the Square
	MA.912.AR.3.1	9.7 Solving Quadratics by Factoring
	MA.912.AR.1.2	9.8 Isolating a Quantity of Interest in a Quadratic Equation
	MA.912.AR.3.1	9.9 Solving Quadratics Using the Quadratic Formula
	MA.912.AR.3.1, MA.912.AR.9.6	9.10 Applying Different Methods of Solving a Quadratic
	MA.912.AR.3.1, MA.912.AR.9.6	9.11 Writing and Solving Quadratic Equations
		Unit 9 Assessment – Part 2
Week 23 - Week 26 1/31 - 2/20		<i>Approximately 14 days total including: 1 Flex Day</i>
Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.912.AR.4.3	10.1 Graphing Absolute Value Functions
	MA.912.AR.4.3	10.2 Interpreting Key Features of Absolute Value Functions
	MA.912.AR.4.1	10.3 Exploring Absolute Value Equations
	MA.912.AR.4.1	10.4 Writing and Solving Absolute Value Equations
		Unit 10 Assessment
Week 26 - Week 27 2/21 - 2/27		<i>Approximately 5 days</i>

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Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.912.AR.5.3	11.1 Exploring Exponential Growth Versus Decay
	MA.912.AR.5.6, MA.912.AR.5.3	11.2 Key Features of Exponential Functions
	MA.912.AR.5.6, MA.912.AR.5.3	11.3 Graphing Exponential Functions Given an Equation
	MA.912.AR.5.6, MA.912.AR.5.3	11.4 Graphing Exponential Functions Given a Written Description and Equation
	MA.912.AR.5.4	11.5 Writing Exponential Functions from a Graph or Table
	MA.912.AR.5.4, MA.912.AR.5.3	11.6 Writing Exponential Functions from a Written Description
		Unit 11 Assessment
Week 27 - Week 28 2/28 - 3/8		<i>Approximately 8 days total including: 1 Flex Day</i>
Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.912.DP.1.1, MA.912.DP.1.2	12.1 Displaying Univariate Data
	MA.912.DP.1.1, MA.912.DP.1.2	12.2 Creating Displays for Numerical Data Sets
	MA.912.DP.1.1, MA.912.DP.1.2	12.3 Interpreting Data Distributions for Numerical Data
	MA.912.DP.1.1, MA.912.DP.1.2	12.4 Displaying and Interpreting Univariate Categorical Data
	MA.912.DP.1.3	12.5 Correlation vs. Causation
	MA.912.DP.1.4	12.6 Estimating for a Population
		Unit 12 Assessment
Week 29 - Week 30 3/11 - 3/29		<i>Approximately 8 days total including: 1 Flex Day</i>
Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.912.FL.3.2, MA.912.FL.3.4, MA.912.F.1.8	13.1 Simple Interest
	MA.912.FL.3.2, MA.912.FL.3.4, MA.912.F.1.8	13.2 Compound Interest
	MA.912.F.1.6, MA.912.F.1.8	13.3 Comparing Key Features of Functions
	MA.912.F.1.1	13.4 Parent Functions
	MA.912.F.2.1	13.5 Exploring Transformations – Horizontal Shifts
	MA.912.F.2.1	13.6 Exploring Transformations – Vertical Shifts

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	MA.912.F.2.1	13.7 Exploring Transformations by a Factor
	MA.912.AR.1.1	13.8 Identifying and Interpreting Parts of an Expression or Equation – Part 1
	MA.912.AR.1.1	13.9 Identifying and Interpreting Parts of an Expression or Equation – Part 2
	MA.912.F.1.8	13.10 Determining Which Function Type Best Models a Real-World Context
	MA.912.F.1.3	13.11 Calculating and Interpreting Average Rate of Change
		Unit 13 Assessment
Week 31 - Week 33 4/1 - 4/17		<i>Approximately 13 days total including: 1 Flex Day</i>
Weeks	Focus Benchmark(s)	Lesson/Topic
	MA.912.DP.3.1, MA.912.DP.1.1, MA.912.DP.1.2	14.1 Constructing Two-Way Tables
	MA.912.DP.3.1, MA.912.DP.1.1, MA.912.DP.1.2	14.2 Interpreting Joint and Marginal Frequencies
	MA.912.DP.3.1, MA.912.DP.1.1, MA.912.DP.1.2	14.3 Two-Way Tables and Segmented Bar Graphs
	MA.912.DP.3.1	14.4 Determining Possible Associations in Data
		Unit 14 Assessment
Week 33 - Week 34 4/18 - 4/25		<i>Approximately 6 days total including: ½ day Flex Day</i>