

**Please Note:**

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**Publisher Resource:**

[HMH \(Holt McDougal\)](#) (use student Active Directory)

**Other Course Supplemental Resources:**

[Math Nation](#) (use student Active Directory)

[Algebra 1](#) (Khan Academy)

[IXL Math – High School Standards](#)

**FSA Practice: (Please Note: these links work best in Firefox or Chrome)**

[Algebra 1 FSA EOC Mathematics Computer-Based PRACTICE TEST](#)

[Algebra 1 FSA Computer-Based Practice Test Answer Key](#)

[Mathematics Practice Tests and Answer Keys – PARCC \(Partnership for Assessment of Readiness for College and Careers\)](#)

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	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 12	1 8/10	<ul style="list-style-type: none"> <li>Understanding Polynomial Expressions</li> </ul>	<a href="#">Combining Like Terms</a> <a href="#">Parts of an Expression</a>
	2 8/13 – 8/17	<b>Unit 1: Using Expressions to Represent Real-Word Situations</b> <ul style="list-style-type: none"> <li>Understanding Polynomial Expressions</li> <li>Algebraic Expressions Using the Distributive Property</li> <li>Algebraic Expressions Using the Commutative and Associative Properties</li> <li>Formative Assessment</li> </ul>	<a href="#">Combining Like Terms</a> <a href="#">Parts of an Expression</a> <a href="#">Closure Property</a> <a href="#">Introduction to Polynomials and Operations with Polynomials</a>
	3 8/20 – 8/24	<ul style="list-style-type: none"> <li>Properties of Exponents</li> <li>Radical Expressions and Expressions with Rational Exponents</li> <li>Adding Expressions with Radicals and Rational Exponents</li> <li>More Operations with Radicals and Radical Exponents</li> <li>Operations with Rational and Irrational Numbers</li> </ul>	<a href="#">Properties of Exponents</a> <a href="#">Rational Exponents</a>
	4 8/27 – 8/31	<ul style="list-style-type: none"> <li>Review</li> <li>Summative Assessment</li> </ul> <b>Unit 2: Equations and Inequalities</b> <ul style="list-style-type: none"> <li>Equations: True or False?</li> <li>Identifying Properties When Solving Equations</li> <li>Solving Equations</li> </ul>	<a href="#">Solving Equations with Variables on Both Sides</a> <a href="#">Solving Equations with Variables on Both Sides Using Distributive Property</a>
	5 9/3 – 9/7	<ul style="list-style-type: none"> <li>Solving Equations Using Zero Product Property</li> <li>Formative Assessment</li> <li>Solving Inequalities Part 1 and 2</li> <li>Solving Compound Inequalities</li> </ul>	<a href="#">Solving Multistep Inequalities</a> <a href="#">Compound Inequalities</a>
	6 9/10 – 9/14	<ul style="list-style-type: none"> <li>Solving Compound Inequalities (Day 2)</li> <li>Rearranging Formulas</li> <li>Solution Sets to Equations with Two Variables</li> </ul>	
	7 9/17 – 9/21	<ul style="list-style-type: none"> <li>Review</li> <li>Summative Assessment</li> </ul> <b>Unit 3: Introduction to Functions</b> <ul style="list-style-type: none"> <li>Input and Output Values</li> <li>Representing, Naming and Evaluating Functions</li> </ul>	

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		<ul style="list-style-type: none"> <li>• Adding and Subtracting Functions</li> </ul>	
	8 9/24 – 9/28	<ul style="list-style-type: none"> <li>• Multiplying Functions</li> <li>• Closure Property</li> <li>• Real World Combinations and Compositions of Functions</li> <li>• Key Features of Graphs of Functions - Part 1</li> <li>• Formative Assessment</li> </ul>	
	9 10/1 – 10/5	<ul style="list-style-type: none"> <li>• Key Features of Graphs of Functions - Part 2</li> <li>• Average Rate of Change Over an Interval</li> <li>• Transformations of Functions</li> <li>• Review</li> <li>• Summative Assessment</li> </ul>	
	10 10/8 – 10/12	<b>Unit 4: Linear Equations, Functions and Inequalities</b> <ul style="list-style-type: none"> <li>• Arithmetic Sequences</li> <li>• Rate of Change of Linear Functions (PSAT)</li> <li>• Interpreting Rate of Change and y-intercept in a Real-World Context – Part 1</li> </ul>	<a href="#">Arithmetic Sequences</a>

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Quarter 2 Oct 16 – Dec 21	1 10/16 – 10/19	<ul style="list-style-type: none"> <li>Interpreting Rate of Change and y-intercept in a Real-World Context Part 2</li> <li>Formative Assessment</li> <li>Introduction to Systems of Equations</li> </ul>	<a href="#">Slope</a>
	2 10/22 – 10/26	<ul style="list-style-type: none"> <li>Finding Solution Sets to Systems of Equations Using Substitution and Graphing</li> <li>Using Equivalent Systems of Equations</li> <li>Finding Solution Sets to Equations Using Elimination</li> <li>Formative Assessment</li> </ul>	<a href="#">Solving Systems of Equations by Graphing</a> <a href="#">Solving Systems of Equations by Substitution</a> <a href="#">Solving Systems of Equations by Elimination</a>
	3 10/29 – 11/2	<ul style="list-style-type: none"> <li>Solution Sets to Inequalities with Two Variables</li> <li>Finding Solution Sets to Systems of Linear Inequalities</li> </ul>	<a href="#">Solving Systems of Equations Word Problems</a> <a href="#">Graphing Systems of Inequalities</a>
	4 11/5 – 11/9	<ul style="list-style-type: none"> <li>Review</li> <li>Summative Assessment</li> </ul> <b>Unit 5: Quadratic Equations and Functions - Part 1</b> <ul style="list-style-type: none"> <li>Real-World Examples of Quadratic Functions</li> <li>Factoring Quadratic Expressions</li> <li>Solving Quadratic Equations by Factoring</li> </ul>	<a href="#">Zero Property</a> <a href="#">Factoring Quadratics All Methods</a> <a href="#">Solving Polynomial Equations by Grouping</a> <a href="#">Solving Quadratics By Factoring</a> <a href="#">Solving Quadratics By Factoring a Is NOT Equal to Zero</a>
	5 11/13 – 11/16	<ul style="list-style-type: none"> <li>Solving Quadratic Equations by Factoring (cont.)</li> <li>Solving Other Quadratic Equations by Factoring</li> <li>Solving Quadratic Equations by Factoring – Special Cases</li> <li>Solving Quadratic Equations by Taking Square Roots</li> <li>Formative Assessment</li> </ul>	<a href="#">Solving Quadratics when the Quadratic is a Difference of Squares</a> <a href="#">Solving Quadratics when the Quadratic is a Perfect Square Trinomial</a> <a href="#">Solving Quadrics by Taking the Square Root</a>
	6 11/19 – 11/20	<ul style="list-style-type: none"> <li>Solving Quadratic Equations by Completing the Square</li> </ul>	<a href="#">Solving Quadratics by Completing the Square</a>
	7 11/26 – 11/30	<ul style="list-style-type: none"> <li>Deriving the Quadratic Formula</li> <li>Solving Quadratic Equations Using the Quadratic Formula</li> <li>Quadratic Functions in Action</li> <li>Review</li> <li>Summative Assessment</li> </ul> <b>Unit 6: Quadratic Equations and Functions - Part 2</b>	<a href="#">Deriving the Quadratic Formula</a> <a href="#">Solving Quadratics by Using the Quadratic Formula</a> <a href="#">Quadratic Word Problems</a>

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		<ul style="list-style-type: none"> <li>• Observations from a Graph of a Quadratic Function</li> </ul>	
	<p>8 12/3 – 12/7</p>	<ul style="list-style-type: none"> <li>• Nature of Solutions of Quadratic Equations and Functions</li> <li>• Graphing Quadratic Functions using a Table</li> <li>• Graphing Quadratic Functions using the Vertex and Intercepts</li> <li>• Graphing Quadratic Functions using Vertex Form – Part 1</li> <li>• Formative Assessment</li> </ul>	<p><a href="#">Finding the Vertex, Axis of Symmetry, and Direction of Opening</a>  <a href="#">Quadratic Functions Written in 3 Different Forms</a>  <a href="#">Converting From Standard Form to Vertex Form</a>  <a href="#">Domain and Range of Quadratics</a></p>
	<p>9 12/10 – 12/14</p>	<ul style="list-style-type: none"> <li>• Graphing Quadratic Functions using Vertex Form – Part 2</li> <li>• Transformation of the Dependent Variable of Quadratic Functions</li> <li>• Transformations of the Independent Variable of Quadratic Functions</li> <li>• Finding Solution Sets to Systems of Equations Using Tables and Values</li> <li>• Summative Assessment</li> </ul>	
	<p>10 12/17 – 12/21</p>	<ul style="list-style-type: none"> <li>• Review</li> <li>• District Formative Assessment</li> </ul>	

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Quarter 3 Jan 7 – Mar 14	1 1/7– 1/11	<b>Unit 7: Exponential Functions</b> <ul style="list-style-type: none"> <li>Geometric Sequences</li> <li>Exponential Functions</li> <li>Graphs of Exponential Functions – Part 1</li> <li>Graphs of Exponential Functions – Part 2</li> <li>Formative Assessment</li> </ul>	<a href="#">Geometric Sequences</a> <a href="#">Writing Exponential Equation Given a Table</a> <a href="#">Exponential Functions</a> <a href="#">Finding Domain and Range From Graphs of Exponential Functions</a>
	2 1/14 – 1/18	<ul style="list-style-type: none"> <li>Growth and Decay Rates of Exponential Functions</li> <li>Transformations of Exponential Functions</li> <li>Formula for Geometric Series (Honors Only)</li> <li>Review</li> <li>Summative Assessment</li> </ul>	<a href="#">Exponential Real World Applications</a> <a href="#">Compound Interest</a>
	3 1/21 – 1/25	<b>Unit 8: Summary of Functions</b> <ul style="list-style-type: none"> <li>Comparing Linear, Quadratic, and Exponential Functions -- Part 1</li> <li>Comparing Linear, Quadratic, and Exponential Functions -- Part 2</li> <li>Comparing Arithmetic and Geometric Sequences</li> <li>Exploring Non-Arithmetic, Non-Geometric Sequences</li> </ul>	<a href="#">Transformations of Quadratics</a> <a href="#">Transformations of Square Roots</a> <a href="#">Transformations of Cube Roots</a> <a href="#">Graphing Polynomial Functions in Factored Form</a>
	4 1/28 – 2/1	<ul style="list-style-type: none"> <li>Modeling with Functions</li> <li>Review</li> <li>Formative Assessment</li> <li>Understanding Piecewise-Defined Functions</li> <li>Absolute Value Functions</li> </ul>	<a href="#">Piecewise Functions</a>  <a href="#">Transformations of Absolute Value</a>
	5 2/4 – 2/8	<ul style="list-style-type: none"> <li>Graphing Power Functions – Part 1</li> <li>Graphing Power Functions – Part 2</li> <li>Finding Zeros of Polynomial Functions of Higher Degree</li> <li>End Behavior of Graphs of Polynomials</li> <li>Graphing Polynomial Functions of Higher Degree</li> </ul>	
	6 2/11 – 2/15	<ul style="list-style-type: none"> <li>Recognizing Even and Odd Functions</li> <li>Solutions to Systems of Functions</li> <li>Review</li> <li>Summative Assessment</li> </ul>	

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	7 2/18 – 2/22	<ul style="list-style-type: none"> <li>• <b>Unit 9: Statistics</b></li> <li>• Dot Plots</li> <li>• Histograms</li> <li>• Box Plots - Part 1</li> <li>• Box Plots - Part 2</li> <li>• Measures of Center and Shapes of Distributions</li> </ul>	<a href="#">Histograms</a> <a href="#">Box Plots</a> <a href="#">IQR</a> <a href="#">Standard Deviation</a>
	8 2/25 – 3/1	<ul style="list-style-type: none"> <li>• Measures of Spread - Part 1</li> <li>• Measures of Spread - Part 2</li> <li>• The Empirical Rule</li> <li>• Outliers in Data Sets</li> <li>• Formative Assessment</li> </ul>	<a href="#">Empirical Rule</a>
	9 3/4 – 3/8	<ul style="list-style-type: none"> <li>• Marginal and Joint Relative Frequency - Part 1</li> <li>• Marginal and Joint Relative Frequency - Part 2</li> <li>• Conditional Relative Frequency</li> <li>• Scatter Plots and Function Models</li> <li>• Residuals and Residual Plots - Part 1</li> </ul>	<a href="#">Two-Way Tables and Two-Way Frequency Tables</a> <a href="#">Scatter Plots</a> <a href="#">Correlation Coefficients</a> <a href="#">Residuals</a>
	10 3/11 – 3/14	<ul style="list-style-type: none"> <li>• Residuals and Residual Plots - Part 2</li> <li>• Examining Correlation</li> <li>• Review</li> <li>• Summative Assessment</li> </ul>	<a href="#">Line of Best Fit</a> <a href="#">Interpreting Trend Lines</a> <a href="#">Comparing Models</a>

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Quarter 4 Mar 18 – May 24	1 3/18 – 3/22	<ul style="list-style-type: none"> <li>• <b>SPRING BREAK – NO SCHOOL</b></li> </ul>	
	2 3/25 – 3/29	<ul style="list-style-type: none"> <li>• <b>Unit 10 – Standards Review</b></li> </ul>	
	3 4/1 – 4/5	<ul style="list-style-type: none"> <li>• Standards Review</li> </ul>	
	4 4/8 – 4/12	<ul style="list-style-type: none"> <li>• Math Nation Boot Camp</li> </ul>	
	5 4/15 – 4/19	<ul style="list-style-type: none"> <li>• Math Nation Boot Camp</li> </ul>	
	6 4/22 – 4/26	<ul style="list-style-type: none"> <li>• Standards-Based Tasks</li> </ul>	
	7 4/29 – 5/3	<ul style="list-style-type: none"> <li>• Standards-Based Tasks</li> </ul>	
	8 5/6 – 5/10	<ul style="list-style-type: none"> <li>• Standards-Based Tasks</li> </ul>	
	9 5/13 – 5/17	<ul style="list-style-type: none"> <li>• Standards-Based Tasks</li> </ul>	
	10 5/20 – 5/24	<ul style="list-style-type: none"> <li>• Final Exams</li> </ul>	

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