

**Please Note:**

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**Publisher Resource:**

Go Math - [My.hrw.com](http://My.hrw.com)

Username: 55S(student ID)

Password: FL + mmddyyyy of birth

**Other Course Supplemental Resources:**

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

[Study Island](#) (use student Active Directory)

[IXL Math – High School Standards](#)

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

[FSA Portal](#)

[FSA Scientific Calculator](#)

[Equation Editor Item Tutorial](#)

[PARCC](#)

[Smarter Balanced Portal](#)

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# Algebra 1 Honors

2016 – 2017

	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 14	1 8/10 - 8/12	<ul style="list-style-type: none"> <li>● <b>Chapter 1 – Expressions, Equations, and Functions</b></li> <li>● Lesson 1-1 - Variables and Expressions</li> <li>● Lesson 1-2 - Orders of Operations</li> <li>● Lesson 1-3 - Properties of Numbers (Closure Property)</li> <li>● Lesson 1-4 - The Distributive Property</li> <li>● <b>Chapter – Exponents and Exponential Functions</b></li> <li>● Lesson 7-1 – Multiplication Properties of Exponents</li> <li>● Lesson 7-2 – Division Properties of Exponents (No Negative Exponents. This will be taught in Q2)</li> </ul>	Lesson 1-1 - <a href="#">Khan Academy</a> Lesson 1-2 - <a href="#">Khan Academy</a> Lesson 1-3 - <a href="#">Khan Academy</a> Lesson 1-4 - <a href="#">Khan Academy</a>  Lesson 7-1 - <a href="#">YouTube</a>
	2 8/15 – 8/19	<ul style="list-style-type: none"> <li>● <b>Chapter 8 – Quadratic Expressions and Equations</b></li> <li>● Lesson 8-1 - Adding and Subtracting Polynomials</li> <li>● Lesson 8-2 - Multiplying a Polynomial by a Monomial</li> <li>● Lesson 8-3 - Multiplying Polynomials</li> <li>● Lesson 8-4 - Special Products</li> </ul>	Lesson 8-1 - <a href="#">Khan Academy</a> Lesson 8-2 - <a href="#">Khan Academy</a> Lesson 8-3 - <a href="#">Khan Academy</a> Lesson 8-4 - <a href="#">Khan Academy</a>
	3 8/22 – 8/26	<ul style="list-style-type: none"> <li>● Lesson 8-5 - Using the Distributive Property (Only Factoring Out The GCF)</li> <li>● Assessment</li> <li>● <b>Chapter 1 – Expressions, Equations, and Functions</b></li> <li>● Lesson 1-5 - Equations</li> <li>● <b>Chapter 2 – Linear Equations</b></li> <li>● Lesson 2-1 - Writing Equations</li> <li>● Lesson 2-2 - Solving One-Step Equations</li> <li>● Lesson 2-3 - Solving Multi-Step Equations</li> <li>● Lesson 2-4 - Solving Equations with the Variable on Each Side</li> </ul>	Lesson 8-5 - <a href="#">Khan Academy</a>  Lesson 1-5 - <a href="#">Khan Academy</a>  Lesson 2-1 - <a href="#">Khan Academy</a> Lesson 2-2 - <a href="#">Khan Academy</a> Lesson 2-3 - <a href="#">Khan Academy</a> Lesson 2-4 - <a href="#">Khan Academy</a>
	4 8/29 – 9/2	<ul style="list-style-type: none"> <li>● Real World Applications</li> <li>● <b>Chapter 5 – Linear Inequalities</b></li> <li>● Lesson 5-1 - Solving Inequalities by Addition and Subtraction</li> <li>● Lesson 5-2 - Solving Inequalities by Multiplication and Division</li> <li>● Lesson 5-3 - Solving Multi-Step Inequalities</li> <li>● Lesson 5-4 - Solving Compound Inequalities</li> <li>● Assessment</li> </ul>	Lesson 5-1 - <a href="#">Khan Academy</a> Lesson 5-2 - <a href="#">Khan Academy</a> Lesson 5-3 - <a href="#">Khan Academy</a> Lesson 5-4 - <a href="#">Khan Academy</a>
	5 9/6 – 9/9	<ul style="list-style-type: none"> <li>● <b>Chapter 2 – Linear Equations</b></li> <li>● Lesson 2-5 - Solving Absolute Value Equations</li> <li>● <b>Chapter 5 – Linear Inequalities</b></li> <li>● Lesson 5-5 - Solving Absolute Value Inequalities</li> <li>● <b>Chapter 8 – Quadratic Expressions and Equations</b></li> <li>● Lesson 8-5 - Using the Distributive Property</li> </ul>	Lesson 2-5 - <a href="#">Khan Academy</a>  Lesson 5-5 - <a href="#">Khan Academy</a>

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2016 – 2017

	<ul style="list-style-type: none"> <li>• (Lessons 8-5 to 8-9 is only solving the equation that is ALREADY in factored form by using the Zero Factor Property.)</li> <li>• <b>Chapter 2 – Linear Equations</b></li> <li>• Lesson 2-6 - Ratios and Proportions</li> </ul>	<p>Lessons 8-5 to 8-9 Zero Factor Property – <a href="#">Khan Academy</a></p> <p>Lesson 2-6 - <a href="#">Khan Academy</a></p>
6 9/12 – 9/16	<ul style="list-style-type: none"> <li>• <b>Chapter 11 – Rational Functions and Equations</b></li> <li>• Lesson 11-3 - Simplifying Rational Expressions (Only finding restricted/excluded values.)</li> <li>• Real World Application Problems</li> <li>• <b>Chapter 2 – Linear Equations</b></li> <li>• Lesson 2-8 - Literal Equations and Dimensional Analysis</li> <li>• Assessment</li> </ul>	<p>Lesson 11-3 Easy - <a href="#">YouTube</a></p> <p>Lesson 11-3 Medium - <a href="#">YouTube</a></p> <p>Application Problems - <a href="#">Khan Academy</a></p> <p>Lesson 2-8 - <a href="#">Khan Academy</a></p>
7 9/19 – 9/23	<ul style="list-style-type: none"> <li>• <b>Chapter 3 – Linear Functions</b></li> <li>• Lesson 3-1 - Graphing Linear Equations</li> <li>• Lesson 3-2 - Solve Linear Equations by Graphing</li> <li>• Lesson 3-3 - Rate of Change and Slope</li> <li>• <b>Chapter 4 – Equations of Linear Functions</b></li> <li>• Lesson 4-1 - Graphing Equations in Slope-Intercept Form</li> <li>• Lesson 4-2 - Writing Equations in Slope-Intercept Form</li> <li>• <b>Chapter 5 – Linear Inequalities</b></li> <li>• Lesson 5-6 - Graphing Inequalities in Two Variables</li> </ul>	<p>Lesson 3-1 - <a href="#">Khan Academy</a></p> <p>Lesson 3-2 – <a href="#">Khan Academy</a></p> <p>Lesson 3-3 - <a href="#">Khan Academy</a></p> <p>Lesson 4-1 - <a href="#">Khan Academy</a></p> <p>Lesson 4-2 - <a href="#">Khan Academy</a></p> <p>Lesson 5-6 - <a href="#">Khan Academy</a></p>
8 9/26 – 9/30	<ul style="list-style-type: none"> <li>• Assessment</li> <li>• <b>Chapter 6 – Systems of Linear Equations and Inequalities</b></li> <li>• Lesson 6-1 - Graphing Systems of Equations</li> <li>• Lesson 6-2 - Substitution</li> <li>• Lesson 6-3 - Elimination Using Addition and Subtraction</li> <li>• Lesson 6-4 - Elimination Using Multiplication</li> <li>• Lesson 6-5 - Applying Systems of Linear Equations</li> </ul>	<p>Lesson 6-1 - <a href="#">Khan Academy</a></p> <p>Lesson 6-2 - <a href="#">Khan Academy</a></p> <p>Lesson 6-3 - <a href="#">Khan Academy</a></p> <p>Lesson 6-4 - <a href="#">Khan Academy</a></p> <p>Lesson 6-5 - <a href="#">Khan Academy</a></p>
9 10/3 – 10/7	<ul style="list-style-type: none"> <li>• Lesson 6-5 - Applying Systems of Linear Equations</li> <li>• Lesson 6-6 - Systems Inequalities</li> <li>• Assessment</li> </ul>	<p>Lesson 6-6 - <a href="#">Khan Academy</a></p>
10 10/10 – 10/14	<ul style="list-style-type: none"> <li>• <b>Chapter 3 – Linear Functions</b></li> <li>• Lesson 3-5 - Arithmetic Sequences as Linear Functions</li> <li>• <b>Chapter 7 – Exponents and Exponential Functions</b></li> <li>• Lesson 7-8 - Recursive Formulas (Arithmetic Sequences ONLY)</li> <li>• <b>Chapter 1 – Expressions, Equations, and Functions</b></li> <li>• Lesson 1-6 - Relations</li> <li>• Lesson 1-7 - Functions</li> </ul>	<p>Lesson 3-5 - <a href="#">Khan Academy</a></p> <p>Lesson 7-8 - <a href="#">Khan Academy</a></p> <p>Lesson 1-6 - <a href="#">Khan Academy</a></p> <p>Lesson 1-7 - <a href="#">Khan Academy</a></p>

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# Algebra 1 Honors

2016 – 2017

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Quarter 2 Oct 18 – Dec 21	1 10/18 – 10/21	<ul style="list-style-type: none"> <li>Lesson 1-8 - Interpreting Graphs of Functions</li> <li>Transformations of Linear Functions</li> <li>Assessment</li> </ul>	Lesson 1-8 - <a href="#">Khan Academy</a> Transformations - <a href="#">Online Math</a>
	2 10/24 – 10/28	<ul style="list-style-type: none"> <li><b>Chapter 9 – Quadratic Functions and Equations</b></li> <li>Lesson 9-7 - Special Functions (Understanding Piecewise Functions)</li> <li>Lesson 9-7 - Special Functions (Graphing Piecewise Functions)</li> <li>Lesson 9-7 - Special Functions (Writing Piecewise Functions)</li> <li>Lesson 9-7 - Special Functions (Graphing Absolute Value Functions)</li> <li>Lesson 9-7 - Special Functions (Transformations of Absolute Value Functions)</li> <li>Assessment</li> </ul>	Lesson 9-7 - <a href="#">Khan Academy</a> Lesson 9-7 - <a href="#">Khan Academy</a> Lesson 9-7 - <a href="#">Khan Academy</a>
	3 10/31 – 11/4	<ul style="list-style-type: none"> <li><b>Chapter 7 – Exponents and Exponential Functions</b></li> <li>Lesson 7-1 - Multiplication Properties of Exponents</li> <li>Lesson 7-2 - Division Properties of Exponents</li> <li>Lesson 7-3 - Rational Exponents (Rational exponents to radical form)</li> <li><b>Chapter 10 – Radical Functions and Geometry</b></li> <li>Lesson 10-4 - Radical Equations (nth Root Equations)</li> </ul>	Lesson 7-1 - <a href="#">Khan Academy</a> Lesson 7-2 - <a href="#">Khan Academy</a> Lesson 7-3 - <a href="#">Khan Academy</a> Lesson 7-3 - <a href="#">Math Warehouse</a> Lesson 10-4 - <a href="#">Khan Academy</a>
	4 11/7 – 11/10	<ul style="list-style-type: none"> <li>Operations with Rational and Irrational Numbers</li> <li><b>Chapter 10 – Radical Functions and Geometry</b></li> <li>Lesson 10-1 - Square Root Functions (Transformations of Functions and review restricted values)</li> <li>Assessment</li> </ul>	Lesson 10-1 - <a href="#">Khan Academy</a>
	5 11/14 – 11/18	<ul style="list-style-type: none"> <li><b>Chapter 8 – Quadratic Expressions and Equations</b></li> <li>Lesson 8-5 - Using the Distributive Property</li> <li>Lesson 8-6 - Solving <math>x^2 + bx + c = 0</math></li> <li>Lesson 8-7 - Solving <math>ax^2 + bx + c = 0</math></li> </ul>	Lesson 8-5 - <a href="#">Khan Academy</a> Lesson 8-6 - <a href="#">Khan Academy</a> Lesson 8-7 - <a href="#">Online Math</a>
	6 11/21 – 11/22	<ul style="list-style-type: none"> <li>Lesson 8-8 - Difference of Squares</li> <li>Lesson 8-9 - Perfect Squares</li> </ul>	Lesson 8-8 - <a href="#">Khan Academy</a> Lesson 8-9 - <a href="#">Khan Academy</a>
	7 11/28 – 12/2	<ul style="list-style-type: none"> <li>10-2 Simplifying Radical Expressions (DO NOT rationalize the denominator.)</li> <li>Solving Quadratics by Taking Square Roots</li> <li>Assessment</li> </ul>	Solving by Square Root - <a href="#">Khan Academy</a>
	8 12/5 – 12/9	<ul style="list-style-type: none"> <li><b>Chapter 9 – Quadratic Functions and Equations</b></li> <li>Lesson 9-1 - Graphing Quadratic Functions</li> <li>Lesson 9-2 - Solving Quadratic Functions by Graphing</li> <li>Lesson 9-3 - Transformations of Quadratic Functions</li> </ul>	Lesson 9-1 - <a href="#">Khan Academy</a> Lesson 9-2 - <a href="#">YouTube</a> Lesson 9-3 - <a href="#">Hot Math</a>

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	9 12/12 – 12/16	<ul style="list-style-type: none"><li>• Semester Review</li></ul>	
	10 12/19 – 12/21	<ul style="list-style-type: none"><li>• District Exams</li></ul>	

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	Week	Major Concepts / Topics	Possible Resources
Quarter 3 Jan 5 – Mar 10	1 1/5 – 1/6	<ul style="list-style-type: none"> <li>Lesson 9-4 - Solving Quadratic Equations by Completing the Square</li> </ul>	Lesson 9-4 - <a href="#">Khan Academy</a>
	2 1/9 – 1/13	<ul style="list-style-type: none"> <li>Lesson 9-4 - Solving Quadratic Equations by Completing the Square</li> <li>Lesson 9-5 - Solving Quadratic Equations by Using the Quadratic Formula</li> <li>Real World Examples of Quadratic Functions</li> </ul>	Lesson 9-5 - <a href="#">Khan Academy</a> Real World Ex. - <a href="#">Khan Academy</a> Real World Ex. - <a href="#">Khan Academy</a>
	3 1/17 – 1/20	<ul style="list-style-type: none"> <li>Real World Examples of Quadratic Functions</li> <li>Graphing Polynomial Functions (Create a rough graph and find the zeros of a function already in factored form.)</li> <li>Assessment</li> </ul>	Polynomial Functions - <a href="#">Khan Academy</a>
	4 1/23 – 1/27	<ul style="list-style-type: none"> <li><b>Chapter 7 – Exponents and Exponential Functions</b></li> <li>Lesson 7-7 - Geometric Sequences as Exponential Functions (Review Arithmetic Sequences. Compare and Contrast Arithmetic and Geometric Sequences.)</li> <li>Lesson 7-8 - Recursive Formulas (Geometric Sequences ONLY)</li> <li>Real World Examples of Arithmetic and Geometric Sequences</li> </ul>	Lesson 7-7 - <a href="#">Khan Academy</a> Lesson 7-8 - <a href="#">YouTube</a>  Real World - <a href="#">YouTube</a>
	5 1/30 – 2/3	<ul style="list-style-type: none"> <li>Real World Examples of Arithmetic and Geometric Sequences</li> <li>Lesson 7-5 - Exponential Functions</li> <li>Lesson 7-6 - Growth and Decay</li> <li>Transformations of Exponential Functions</li> <li>Assessment</li> </ul>	Lesson 7-5 - <a href="#">Khan Academy</a> Lesson 7-6 - <a href="#">Khan Academy</a> Transformations - <a href="#">Algebra Lab</a>
	6 2/6 – 2/10	<ul style="list-style-type: none"> <li><b>Chapter 0 – Preparing for Algebra</b></li> <li>Lesson 0-13 - Representing Data</li> <li>Lesson 0-12 - Measures of Center, Variation, and Position</li> <li>Application</li> </ul>	Lesson 0-13 - <a href="#">Khan Academy</a> Lesson 0-12 - <a href="#">Khan Academy</a>
	7 2/13 – 2/16	<ul style="list-style-type: none"> <li><b>Chapter 12 – Statistics and Probability</b></li> <li>Lesson 12-3 - Distributions of Data</li> <li>Lesson 12-4 - Comparing Sets of Data</li> <li>Extend 12-7 Lab</li> <li>Assessment</li> </ul>	Lesson 12-3 - <a href="#">Khan Academy</a> Lesson 12-4 - <a href="#">Khan Academy</a> Lesson 12-7 - <a href="#">Khan Academy</a>
	8 2/21 – 2/24	<ul style="list-style-type: none"> <li><b>Chapter 4 – Equations of Linear Functions</b></li> <li>Lesson 4-5 - Scatter Plots and Lines of Fit</li> <li>Lesson 4-6 - Regression and Median-Fit Lines</li> <li>Extend 4-5 Lab</li> <li>Calculate Residuals</li> <li>Correlation Coefficient (Do not calculate)</li> </ul>	Lesson 4-5 - <a href="#">Khan Academy</a> Lesson 4-6 - <a href="#">Khan Academy</a> Lab - <a href="#">Star Trek</a>

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2016 – 2017

	<p style="text-align: center;">9 2/27 – 3/3</p>	<ul style="list-style-type: none"> <li>• 2-Way Frequency Tables</li> <li>• Assessment</li> <li>• <b>Chapter 9 – Quadratic Functions and Equations</b></li> <li>• Lesson 9-6 - Analyzing Functions with Successive Differences</li> </ul>	
	<p style="text-align: center;">10 3/6 – 3/10</p>	<ul style="list-style-type: none"> <li>• Algebra Nation Topic – Key Features of Parent Function Graphs</li> <li>• Algebra Nation Topic – Comparing Rate of Change for Linear, Quadratic and Exponential Functions</li> <li>• Finding Average Rate of Change From a Graph, Table, and Equation</li> </ul>	

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2016 – 2017

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Quarter 4 Mar 21 – May 24	1 3/12 – 3/24	<ul style="list-style-type: none"> <li>Standards Based Performance Tasks</li> </ul>	
	2 3/27 – 3/31	<ul style="list-style-type: none"> <li>Standards Based Performance Tasks</li> </ul>	
	3 4/3 – 4/7	<ul style="list-style-type: none"> <li>Standards Based Performance Tasks</li> </ul>	
	4 4/10 – 4/13	<ul style="list-style-type: none"> <li>Standards Based Performance Tasks</li> </ul>	
	5 4/17 – 4/21	<ul style="list-style-type: none"> <li>Standards Based Performance Tasks</li> </ul>	
	6 4/24 – 4/28	<ul style="list-style-type: none"> <li>Standards Based Performance Tasks</li> </ul>	
	7 5/1 – 5/5	<ul style="list-style-type: none"> <li>Standards Based Performance Tasks</li> </ul>	
	8 5/8 – 5/12	<ul style="list-style-type: none"> <li>Rationalizing the Denominator</li> </ul>	
	9 5/15 – 5/19	<ul style="list-style-type: none"> <li>Operations with Radicals</li> <li>Simplifying Rational Expressions</li> <li>Long Division/Synthetic Division-Reminder Theorem</li> <li>Rational Equations</li> </ul>	Operations <a href="#">Khan Academy</a> Simplifying <a href="#">Khan Academy</a> Long Division <a href="#">Khan Academy</a> Synthetic Division <a href="#">Khan Academy</a> Rational Equations <a href="#">Khan Academy</a>
	10 5/22 – 5/24	<ul style="list-style-type: none"> <li>Inverse Functions</li> <li>Writing Equations of Parallel and Perpendicular Lines</li> <li>Final Exams</li> </ul>	Inverse <a href="#">Khan Academy</a> Parallel and Perpendicular Lines <a href="#">Khan Academy</a>

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