

Please Note:

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Publisher Resource:

McGraw Hill – [Cinch Learning](#) (use student Active Directory)

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

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

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

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

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

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

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

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