

Algebra Honors 1

2015 – 2016

Please Note:

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Publisher Resource:

McGraw Hill – [Cinch Learning](#)

Other Course Supplemental Resources – by standard and Topic:

[Algebra Nation](#)

Username: Student ID

Password: mm/dd/yyyy of birth (include slashes)

[Study Island](#)

Login: 55s(student #)

Password: first initial first name + first initial last name + mmddyyyy of birth

[IXL Math – High School Standards](#)

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

[FSA Portal](#)

[PARCC](#)

[Smarter Balanced Portal](#)

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	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 16	1	<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 • Lesson 1-4 - The Distributive Property • Chapter 8 – Quadratic Expressions and Equations • Lesson 8-1 - Adding and Subtracting Polynomials • Lesson 8-2 - Multiplying a Polynomial by a Monomial 	Lesson 1-1 - Khan Academy Lesson 1-2 - Khan Academy Lesson 1-3 - Khan Academy Lesson 1-4 - Khan Academy Lesson 8-1 - Khan Academy Lesson 8-2 - Khan Academy
	2	<ul style="list-style-type: none"> • Chapter 8 – Quadratic Expressions and Equations • Lesson 8-3 - Multiplying Polynomials • Lesson 8-4 - Special Products • Lesson 8-5 - Using the Distributive Property (Only Factoring Out The GCF) • Assessment 	Lesson 8-3 - Khan Academy Lesson 8-4 - Khan Academy Lesson 8-5 - Khan Academy
	3	<ul style="list-style-type: none"> • 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 • Chapter 5 – Linear Inequalities • Lesson 5-1 - Solving Inequalities by Addition and Subtraction • Lesson 5-2 - Solving Inequalities by Multiplication and Division 	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 Lesson 5-1 - Khan Academy Lesson 5-2 - Khan Academy
	4	<ul style="list-style-type: none"> • Chapter 5 – Linear Inequalities • Lesson 5-3 - Solving Multi-Step Inequalities • Lesson 5-4 - Solving Compound Inequalities • 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 8-6 - Solving $x^2+bx+c=0$ • Lesson 8-7 - Solving $ax^2+bx+c=0$ • Lesson 8-8 - Difference of Squares • Lesson 8-9 - Perfect Squares 	Lesson 5-3 - Khan Academy Lesson 5-4 - Khan Academy Lesson 2-5 - Khan Academy Lesson 5-5 - Khan Academy Lessons 8-5 to 8-9 Zero Factor Property – 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.) 	
5	<ul style="list-style-type: none"> • Chapter 2 – Linear Equations • Lesson 2-6 - Ratios and Proportions • 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 2-6 - Khan Academy</p> <p>Application Problems - Khan Academy</p> <p>Lesson 2-8 - Khan Academy</p>
6	<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 • Lesson 4-3 - Writing Equations in Point-Slope Form 	<p>Lesson 3-1 - Khan Academy</p> <p>Lesson 3-2 - Khan Academy</p> <p>Lesson 3-3 - Khan Academy</p> <p>Lesson 4-1 - Khan Academy</p> <p>Lesson 4-2 - Khan Academy</p> <p>Lesson 4-3 - Khan Academy</p>
7	<ul style="list-style-type: none"> • Chapter 5 – Linear Inequalities • Lesson 5-6 - Graphing Inequalities in Two Variables • Assessment • Chapter 6 – Systems of Linear Equations and Inequalities • Lesson 6-1 - Graphing Systems of Equations • Lesson 6-2 - Substitution 	<p>Lesson 5-6 - Khan Academy</p> <p>Lesson 6-1 - Khan Academy</p> <p>Lesson 6-2 - Khan Academy</p>
8	<ul style="list-style-type: none"> • Chapter 6 – Systems of Linear Equations and Inequalities • Lesson 6-3 - Elimination Using Addition and Subtraction • Lesson 6-4 - Elimination Using Multiplication • Lesson 6-5 - Applying Systems of Linear Equations 	<p>Lesson 6-3 - Khan Academy</p> <p>Lesson 6-4 - Khan Academy</p> <p>Lesson 6-5 - Khan Academy</p>
9	<ul style="list-style-type: none"> • Chapter 6 – Systems of Linear Equations and Inequalities • Lesson 6-6 - Systems Inequalities • Assessment 	<p>Lesson 6-6 - Khan Academy</p>

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Quarter 2 Oct 20 – Dec 18	1	<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 • Chapter 12 – Statistics and Probability • Lesson 12-3 - Distributions of Data 	Lesson 0-13 - Khan Academy Lesson 0-12 - Khan Academy Lesson 12-3 - Khan Academy
	2	<ul style="list-style-type: none"> • Chapter 12 – Statistics and Probability • Lesson 12-4 - Comparing Sets of Data • Extend 12-7 Lab 	Lesson 12-4 - Khan Academy Lesson 12-7 - Khan Academy
	3	<ul style="list-style-type: none"> • Assessment • 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 3-5 - Khan Academy Lesson 7-8 - Khan Academy Lesson 1-6 - Khan Academy
	4	<ul style="list-style-type: none"> • Chapter 1 – Expressions, Equations, and Functions • Lesson 1-7 - Functions • Lesson 1-8 - Interpreting Graphs of Functions • Transformations of Linear Functions 	Lesson 1-7 - Khan Academy Lesson 1-8 - Khan Academy Transformations - Online Math
	5	<ul style="list-style-type: none"> • Assessment • 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 - Khan Academy
	6	<ul style="list-style-type: none"> • Chapter 9 – Quadratic Functions and Equations • 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) 	Lesson 9-7 - Khan Academy Lesson 9-7 - Khan Academy
	7	<ul style="list-style-type: none"> • Assessment • 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 • Chapter 10 – Radical Functions and Geometry • Lesson 10-4 - Radical Equations 	Lesson 7-1 - Khan Academy Lesson 7-2 - Khan Academy Lesson 7-3 - Khan Academy Lesson 10-4 - Khan Academy
	8	<ul style="list-style-type: none"> • Chapter 7 – Exponents and Exponential Functions • Lesson 7-3 - Rational Exponents (Solving Equations) 	Lesson 7-3 - Khan Academy

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		<ul style="list-style-type: none">• Operations with Rational and Irrational Numbers• Chapter 10 – Radical Functions and Geometry• Lesson 10-1 - Square Root Functions• Assessment	Lesson 10-1 - Khan Academy
	9	<ul style="list-style-type: none">• Semester Exams	

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Quarter 3 Jan 6 – Mar 17	1	<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 8-5 - Khan Academy Lesson 8-6 - Khan Academy
	2	<ul style="list-style-type: none"> • Chapter 8 – Quadratic Expressions and Equations • Lesson 8-7 - Solving $ax^2+bx+c=0$ • Lesson 8-8 - Difference of Squares • Lesson 8-9 - Perfect Squares 	Lesson 8-7 - Online Math Lesson 8-8 - Khan Academy Lesson 8-9 - Khan Academy
	3	<ul style="list-style-type: none"> • Solving Quadratics by Taking Square Roots • Assessment • Chapter 9 – Quadratic Functions and Equations • Lesson 9-1 - Graphing Quadratic Functions • Lesson 9-2 - Solving Quadratic Functions by Graphing 	Solving by Square Root - Khan Academy Lesson 9-1 - Khan Academy Lesson 9-2 - Khan Academy
	4	<ul style="list-style-type: none"> • Chapter 9 – Quadratic Functions and Equations • Lesson 9-3 - Transformations of Quadratic Functions • Lesson 9-4 - Solving Quadratic Equations by Completing the Square 	Lesson 9-3 - Hot Math Lesson 9-4 - Khan Academy
	5	<ul style="list-style-type: none"> • Chapter 9 – Quadratic Functions and Equations • 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
	6	<ul style="list-style-type: none"> • Real World Examples of Quadratic Functions 	
	7	<ul style="list-style-type: none"> • Graphing Polynomial Functions • Assessment 	Polynomial Functions - Khan Academy
	8	<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 • Assessment 	Lesson 4-5 - Khan Academy Lesson 4-6 - Khan Academy Lab - Star Trek
	9	<ul style="list-style-type: none"> • Chapter 7 – Exponents and Exponential Functions • Lesson 7-7 - Geometric Sequences as Exponential Functions • Lesson 7-8 - Recursive Formulas (Geometric Sequences ONLY) • Real World Examples of Arithmetic and Geometric Sequences • Lesson 7-5 - Exponential Functions 	Lesson 7-7 - Khan Academy Lesson 7-8 - Khan Academy Real World - Khan Academy Lesson 7-5 - Khan Academy
	10	<ul style="list-style-type: none"> • Chapter 7 – Exponents and Exponential Functions • Lesson 7-6 - Growth and Decay • Transformations of Exponential Functions 	Lesson 7-6 - Khan Academy Transformations - Algebra Lab

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	11	<ul style="list-style-type: none">• Assessment
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Quarter 4 Mar 29 – May 26	1	<ul style="list-style-type: none"> • Chapter 9 – Quadratic Functions and Equations • Lesson 9-6 - Analyzing Functions with Successive Differences 	Algebra 1 Standards – Florida Student
	2	<ul style="list-style-type: none"> • Algebra Nation Topic – Key Features of Parent Function Graphs 	
	3	<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 	
	4	<ul style="list-style-type: none"> • Algebra Nation Topic – Comparing Rate of Change for Linear, Quadratic and Exponential Functions • Assessment 	
	5	<ul style="list-style-type: none"> • Standards Based Performance Tasks 	
	6	<ul style="list-style-type: none"> • Standards Based Performance Tasks 	
	7	<ul style="list-style-type: none"> • Standards Based Performance Tasks 	
	8	<ul style="list-style-type: none"> • Standards Based Performance Tasks 	
	9	<ul style="list-style-type: none"> • Exam Week 	

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