

Algebra 1 Standard

2015 – 2016

Please Note:

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Publisher Resource:

Go Math - My.hrw.com

Username: 55S(student ID)

Password: FL + mmddyyyy of birth

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	Unit 1 – Working with Expressions <ul style="list-style-type: none"> • Module 3 – Expressions - Lesson 3.1 - Evaluation Expressions • Lesson 3.3 – Writing Expressions • Lesson 3.2 – Simplifying Expressions • Module 14 – Polynomials and Operations - Lesson 14.1 – Understanding Polynomials • Lesson 14.2 – Adding and Subtracting Polynomials 	Lesson 3.1 - Khan Academy Lesson 3.3 - Khan Academy Lesson 3.2 - Khan Academy Lesson 14.1 - Khan Academy Lesson 14.2 - Khan Academy
	2	Unit 1 – Working with Expressions <ul style="list-style-type: none"> • Module 14 – Polynomials and Operations - Lesson 14.2 – Adding and Subtracting Polynomials • Lesson 14.3 – Multiplying Polynomials by Monomials • Lesson 14.4 – Multiplying Polynomials • Assessment 	Lesson 14.3 - Khan Academy Lesson 14.4 - Khan Academy
	3	Unit 2 – Solving Equations and Inequalities in One Variable <ul style="list-style-type: none"> • Algebra Nation Topic - Equations True or False • Module 4 – Equations and Inequalities in One Variable - Lesson 4.1 – Equations in One Variable • Lesson 4.2 – Inequalities in One Variable • Algebra Nation Solving Compound Inequalities 	Lesson 4.1 - Khan Academy Lesson 4.2 - Khan Academy
	4	Unit 2 – Solving Equations and Inequalities in One Variable <ul style="list-style-type: none"> • Algebra Nation Topic - Solving Absolute Value Equations and Inequalities • Algebra Nation Topic - Solving Equations Using the Zero Product Property • Algebra Nation Topic - Equations with Variable in the Denominator • Algebra Nation Topic - Solving Equations in Real-Life Situations 	
	5	Unit 2 – Solving Equations and Inequalities in One Variable <ul style="list-style-type: none"> • Module 4 – Equations and Inequalities in One Variable - Lesson 4.3 – Solving for a Variable • Assessment Unit 3 – Solving Equations <ul style="list-style-type: none"> • Module 5 – Equations in Two Variables and Functions - Lesson 5.1 – Equations in Two Variables 	Lesson 4.3 - Khan Academy Lesson 5.1 - Khan Academy
	6	Unit 3 – Solving Equations <ul style="list-style-type: none"> • Module 6 – Linear Functions - Lesson 6.1 Linear Functions • Lesson 6.2 Using Intercepts • Lesson 6.3 Using Slope • Lesson 6.4 Slope Intercept Form 	Lesson 6.1 - Khan Academy Lesson 6.2 - Khan Academy Lesson 6.3 - Khan Academy Lesson 6.4 - Khan Academy
	7	Unit 3 – Solving Equations <ul style="list-style-type: none"> • Module 6 – Linear Functions - Lesson 6.4 • Quiz 	

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		<ul style="list-style-type: none"> Module 7 – Building Linear Functions - Lesson 7.4 Linear Inequalities in Two Variables Module 9 – Systems of Equations and Inequalities - Lesson 9.1 Solving Linear Systems by Graphing 	Lesson 7.4 - Khan Academy Lesson 9.1 - Khan Academy
	8	Unit 3 – Solving Equations <ul style="list-style-type: none"> Module 9 – Systems of Equations and Inequalities - Lesson 9.2 Solving Linear Systems by Substitution Lesson 9.3 Solving Linear Systems by Adding or Subtracting Lesson 9.4 Solving Linear Systems by Multiplying 	Lesson 9.2 - Khan Academy Lesson 9.3 - Khan Academy Lesson 9.4 - Khan Academy
	9	Unit 3 – Solving Equations <ul style="list-style-type: none"> Module 9 – Systems of Equations and Inequalities - Lesson 9.5 Solving Systems of Linear Inequalities Assessment 	Lesson 9.5 - Khan Academy

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Quarter 2 Oct 20 – Dec 18	1	Unit 4 - Statistics <ul style="list-style-type: none"> • Module 13 – Data Displays - Lesson 13.2 Data Distributions and Outliers • Lesson 13.3 Histograms • Lesson 13.4 Box Plots • Lesson 13.1 Measures of Center and Spread 	Lesson 13.2 - Khan Academy Lesson 13.3 - Khan Academy Lesson 13.4 - Khan Academy Lesson 13.1 - Khan Academy
	2	Unit 4 - Statistics <ul style="list-style-type: none"> • Module 13 – Data Displays - Lesson 13.1 Measures of Center and Spread • Lesson 13.2 Data Distributions and Outliers • Module 12 – Descriptive Statistics - Lesson 12.1 Two Way Frequency Table • Lesson 12.2 Relative Frequency • Assessment 	Lesson 12.1 - Khan Academy Lesson 12.2 - Khan Academy
	3	Unit 5 – Introduction to Functions <ul style="list-style-type: none"> • Module 5 – Equations in Two Variables and Functions - Lesson 5.3 Sequences • Module 6 – Linear Functions - Lesson 6.7 Writing Linear Functions • Module 7 – Building Linear Functions - Lesson 7.1 Arithmetic Sequences • Module 5 – Equations in Two Variables and Functions - Lesson 5.2 Representing Functions 	Lesson 5.3 - Khan Academy Lesson 6.7 - Khan Academy Lesson 7.1 - Khan Academy Lesson 5.2 - Khan Academy
	4	Unit 5 – Introduction to Functions <ul style="list-style-type: none"> • Algebra Nation Topic – Representing, Naming and Solving Functions • Algebra Nation Topic – Graphs of Functions 	
	5	Unit 5 – Introduction to Functions <ul style="list-style-type: none"> • Module 6 – Linear Functions - Lesson 6.6 Transforming Linear Functions • Assessment 	Lesson 6.6 - Math Learning
	6	Unit 6 – Piecewise-Defined Functions <ul style="list-style-type: none"> • Module 18 – Piecewise and Absolute Value Functions - Lesson 18.1 Piecewise Functions • Lesson 18.2 Absolute Value Functions 	Lesson 18.1 - Khan Academy Lesson 18.2 - Khan Academy
	7	Unit 6 – Piecewise-Defined Functions <ul style="list-style-type: none"> • Module 18 – Piecewise and Absolute Value Functions - Lesson 18.2 Absolute Value Functions • Lesson 18.3 Transforming Absolute Value Functions • Assessment Unit 7 – Radicals and Rational Exponents <ul style="list-style-type: none"> • Module 2 – Exponents and Real Numbers - Lesson 2.1 Radicals and Rational Exponents 	Lesson 18.3 - Mrs. Heller Lesson 2.1 - Khan Academy
	8	Unit 7 – Radicals and Rational Exponents <ul style="list-style-type: none"> • Module 2 – Exponents and Real Numbers - Lesson 2.1 Radicals and Rational Exponents • Module 10 – Exponential Functions and Equations - Lesson 10.5 Equations Involving Exponents • Lesson 10.2 Real Numbers • Module 19 – Square Root and Cube Root Functions - Lesson 19.1 Square Root Functions 	Lesson 10.5 - Purple Math Lesson 10.2 - Khan Academy Lesson 19.1 - Khan Academy

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		<ul style="list-style-type: none">Lesson 19.2 Transforming Square Root Functions	Lesson 19.2 - Khan Academy
	9	<ul style="list-style-type: none">Semester Exams	

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	Week	Major Concepts / Topics	Possible Resources
Quarter 3 Jan 6 – Mar 17	1	Unit 8 - Quadratics <ul style="list-style-type: none"> • Module 15 – Factoring Polynomials - Lesson 15.1 Factoring Polynomials • Lesson 15.2 Factoring $x^2 + bx + c$ 	Lesson 15.1 - Khan Academy Lesson 15.2 - Khan Academy
	2	Unit 8 - Quadratics <ul style="list-style-type: none"> • Module 15 – Factoring Polynomials - Lesson 15.2 Factoring $x^2 + bx + c$ • Module 16 – Solving Quadratic Equations - Lesson 16.2 Solving $x^2 + bx + c = 0$ by factoring • Module 15 – Factoring Polynomials - Lesson 15.3 Factoring ax^2+bx+c 	Lesson 16.2 - Khan Academy Lesson 15.3 - Khan Academy
	3	Unit 8 - Quadratics <ul style="list-style-type: none"> • Module 16 – Solving Quadratic Equations - Lesson 16.3 Solving $ax^2+bx+c = 0$ by factoring • Assessment 	Lesson 16.3 - Khan Academy
	4	Unit 8 - Quadratics <ul style="list-style-type: none"> • Module 15 – Factoring Polynomials - Lesson 15.4 Factoring Special Products • Module 16 – Solving Quadratic Equations - Lesson 16.1 Solving Quadratic Equations Using Square Roots • Module 17 – Quadratic Functions - Lesson 17.1 Translating Quadratic Functions • Lesson 17.2 Stretching, Shrinking and Reflecting Quadratic Functions 	Lesson 15.4 - Khan Academy Lesson 16.1 - Khan Academy Lesson 17.1 - Hotmath Lesson 17.2 - Hotmath
	5	Unit 8 - Quadratics <ul style="list-style-type: none"> • Module 17 – Quadratic Functions - Lesson 17.2 Stretching, Shrinking and Reflecting Quadratic Functions • Lesson 17.3 Combining Transformations of Quadratic Functions • Lesson 17.4 Characteristics of Quadratic Functions • Module 16 – Solving Quadratic Equations - Lesson 16.1 Solving Quadratic Equations Using Square Roots 	Lesson 17.3 - Hotmath Lesson 17.4 - Khan Academy Lesson 16.1 – Khan Academy
	6	Unit 8 - Quadratics <ul style="list-style-type: none"> • Module 16 – Solving Quadratic Equations - Lesson 16.4 Solving $x^2 + bx + c = 0$ by Completing the Square • Lesson 16.5 Solving $ax^2 + bx + c = 0$ by Completing the Square • Lesson 16.6 Quadratic Formula 	Lesson 16.4 - Khan Academy Lesson 16.5 - Khan Academy Lesson 16.6 - Khan Academy
	7	Unit 8 - Quadratics <ul style="list-style-type: none"> • Algebra Nation Topic – Graphing Polynomial Functions • Assessment 	
	8	Unit 9 - Data <ul style="list-style-type: none"> • Module 8 – Modeling with Linear Functions - Lesson 8.1 Correlation • Lesson 8.2 Fitting Lines to Data • Lesson 8.3 Linear Regression • Assessment 	Lesson 8.1 - Khan Academy Lesson 8.2 - Khan Academy Lesson 8.3 - Stattek

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	9	Unit 10 – Exponential Functions <ul style="list-style-type: none"> • Module 10 – Exponential Functions and Equations - Lesson 10.3 Geometric Sequences • Lesson 10.1 Exponential Functions 	Lesson 10.3 - Khan Academy Lesson 10.1 - Khan Academy
	10	Unit 10- Exponential Functions <ul style="list-style-type: none"> • Module 10 – Exponential Functions and Equations - Lesson 10.1 Exponential Functions • Lesson 10.2 Exponential Growth and Decay • Lesson 10.4 Transforming Exponential Functions • Algebra Nation Topic – Real World Application 	Lesson 10.2 - Khan Academy Lesson 10.4 - Study.com
	11	<ul style="list-style-type: none"> • Assessment 	

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Quarter 4 Mar 29 – May 26	1	Unit 11 – Elements of Modeling <ul style="list-style-type: none"> • Module 17 – Quadratic Functions - Lesson 17.6 Comparing Linear, Exponential and Quadratic Models 	Lesson 17.6 - Spohia.org
	2	Unit 11 – Elements of Modeling <ul style="list-style-type: none"> • Module 17 – Quadratic Functions - Lesson 17.6 Comparing Linear, Exponential and Quadratic Models • Algebra Nation Topic – Key Features of Parent Function Graphs 	
	3	Unit 11 – Elements of Modeling <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	Unit 11 – Elements of Modeling <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 	Algebra 1 Standards – Florida Student
	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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