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Publisher Resource:

HMH (Holt McDougal) - My.hrw.com
     Username: SJCSD55FLs#####
     Password: First initial + last initial + the student birthday in MMDDYYYY format (initials must be in CAPS)

Other Course Supplemental Resources:

Math 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

Algebra 1   2016 – 2017

	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 14	1 8/10 - 8/12	**Unit 1 – Working with Expressions** • Number Sense (Operations of Real Numbers) • Lesson 2.2 p.38 Properties of Real Numbers (Associative, Commutative, Identity)	
	2 8/15 – 8/19	**Unit 1 – Working with Expressions** • Lesson 2.2 p.41, 42 Rational & Irrational Properties (Sum and Product of Rational & Irrational) • Algebra Nation Topic – Section 5 Video 5 • Lesson 3.1 p.52 – Order of Operations • Lesson 3.2 p.57, 58 (Distributive Property) • Lesson 4.1 p.89 – Equations in One Variable (Combining Like Terms, Justify Steps, Include fractional coefficients)	Lesson 3.2 - [Khan Academy](#)
	3 8/22 – 8/26	**Unit 2 – Solving Equations & Inequalities in One Variable on One Side & Both Sides (Use up to 4 steps to isolate the variable)** • Lesson 4.1 p.89 – Solving Inequalities in one Variable multi-step • Lesson 4.2 p.97 – Solving Inequalities in One Variable (Combining Like Terms, Justify Steps, Include fractional coefficients) • Algebra Nation Topic - Solving & Graphing Compound Inequalities Section 2 Video 5 & 6 • Lesson 4.3 p.107 - Solving Literal Equations	Lesson 4.1 - [Khan Academy](#) Lesson 4.2 - [Khan Academy](#) Lesson 4.3 - [Khan Academy](#)
	4 8/29 – 9/2	**Unit 2 – Solving Equations & Inequalities in One Variable on One Side & Both Sides** **(Use up to 4 steps to isolate the variable)** • Lesson 4.1 & 4.2- Solving Equations & Inequalities in Real-Life Situations • Assessment	
	5 9/6 – 9/9	**Unit 3 – Introduction to Functions** • Algebra Nation Topic - Solving Equations in Real-Life Situations • Algebra Nation Topic - Equations True or False • Algebra Nation Topic - Equations with Variable in the Denominator • Algebra Nation Topic - Solving Equations Using the Zero Product Property • Algebra Nation Topic – Section 4 Introduction to Functions (Video 5)	
	6 9/12 – 9/16	**Unit 4 – Linear Functions & Inequalities** • Unpacking the Standards p118-What is a Function (Definition & Notation) • Lesson 5.1 - Evaluating a Function (Input and output) • Lesson 5.2 - Representing Functions (Graph, Table, Mapping, Ordered Pairs, and Diagram)	Lesson 5.1 - [Khan Academy](#)
	7 9/19 – 9/23	**Unit 4 – Linear Functions & Inequalities** • Lesson 6.1 - p.155 Linear Functions • Lesson 6.2 - p.163 Using Intercepts	Lesson 6.1 - [Khan Academy](#) Lesson 6.2 - [Khan Academy](#)

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		• Lesson 6.3 - p.171 Using Slope • Lesson 6.4 - p.179 Slope Intercept Form	Lesson 6.3 - Khan Academy Lesson 6.4 - Khan Academy
	8 9/26 – 9/30	**Unit 4- Linear Functions & Inequalities** • Lesson 6.5 – p.187 Comparing Linear Functions • Lesson 6.6 – p.193 Transforming Linear Functions (Interpreting Key Features) • Lesson 6.7 – p.201 Writing Linear Functions from a word problem or graph.	Lesson 6.6 - Math Learning
	9 10/3 – 10/7	**Unit 4- Linear Functions & Inequalities** • Lesson 5.3 – p.133 Understanding Sequences • Algebra Nation Topic – Section 4 Video 1 • Lesson 7.1 – p.213 Writing Arithmetic Sequences • Lesson 7.2 – p.219 Operations with Linear Functions	Lesson 5.3 - Khan Academy
	10 10/10 – 10/14	**Unit 4- Linear Functions & Inequalities** • Lesson 7.4 – p.233 Linear Inequalities in Two Variables • Algebra Nation Topic – Section 3 Video 7 • Assessment	Lesson 7.4 - Khan Academy

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	Week	Major Concepts / Topics	Possible Resources
Quarter 2 Oct 18 – Dec 21	1 10/18 – 10/21	**Unit 5 – System of Linear Equations & Inequalities** • Lesson 9.1 – p.277 Solving Linear Systems by Graphing • Lesson 9.2 - p.285 Solving Linear Systems by Substitution	Lesson 9.1 - Khan Academy Lesson 9.2 - Khan Academy
	2 10/24 – 10/28	**Unit 5 – System of Linear Equations & Inequalities** • Lesson 9.3 – p.293 Solving Linear Systems by Adding or Subtracting • Lesson 9.4 – p.303 Solving Linear Systems by Multiplying • Real World Problems	Lesson 9.3 - Khan Academy Lesson 9.4 - Khan Academy
	3 10/31 – 11/4	**Unit 5 – System of Linear Equations & Inequalities** • Lesson 9.5 – p.311 Solving Systems of Linear Inequalities • Assessment	Lesson 9.5 - Khan Academy

	4
	11/7 – 11/10
		Unit 6 – Exponential Functions
		• Lesson 2.1 – p31 Properties of Exponents
		     Algebra Nation Topic - Section 5 Video 1
		• Rewrite Radical Expressions as Rational Exponents
		     Algebra Nation Topic – Section 5 Video 2
		• Operations with Radical & Rational Exponents
		• Algebra Nation Topic – Section 5 Videos 3 & 4	

	5 11/14 – 11/18	**Unit 6 – Exponential Functions** • Lesson 10.3 – p.353 Geometric Sequences • Algebra Nation Topic - Section 8 Video 1 & 2 • Lesson 10.1 – p.337 Exponential Functions (Identifying Parts) • Algebra Nation – Section 8 Video 3 • Lesson 10.2 – p.345 Recognizing Growth & Decay Given a Table or Graph • Algebra Nation Topic - Section 8 Video 4 – 6	Lesson 10.3 - Khan Academy Lesson 10.1 - Khan Academy Lesson 10.2 - Khan Academy
	6 11/21 – 11/22	• Assessment	
	7 11/28 – 12/2	**Unit 6 – Exponential Functions** • Graph Exponential Functions by a table, intercepts, and describe the end behavior • State the domain & range of an exponential function • Lesson 10.4 – p.361 Transformations of Exponential Functions • Lesson 11.2 – p.387 Comparing Linear & Exponential Functions	Lesson 10.4 - Study.com
	8 12/5 – 12/9	**Unit 7 – Polynomials** • Lesson 14.2 – Adding & Subtracting Polynomials • Lesson 14.3 – Multiply Polynomials by Monomials • Lesson 14.4 – Multiply Polynomials	

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	9 12/12 – 12/16	• Review • District Exams	
	10 12/19 – 12/21	• District Exams	

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	Week	Major Concepts / Topics	Possible Resources
Quarter 3 Jan 5 – Mar 10	1 1/5 – 1/6	**Unit 7 - Quadratics** • Lesson 15.1 Factoring Polynomials • Lesson 15.2 Factoring $x^2 + bx + c$	Lesson 15.1 - Khan Academy Lesson 15.2 - Khan Academy
	2 1/9 – 1/13	**Unit 7 - Quadratics** • Lesson 15.2 Factoring $x^2 + bx + c$ • Lesson 15.3 Factoring ax^2+bx+c • Lesson 15.4 Factoring Special Products	Lesson 15.3 - Khan Academy Lesson 15.4 - Khan Academy
	3 1/17 – 1/20	**Unit 7 - Quadratics** • Lesson 16.2 – Solving $x^2+bx+c = 0$ by Factoring (Emphasize the Zero Product Property) • Lesson 16.3 - Solving $ax^2+bx+c = 0$ by factoring • Lesson 16.1 – Solving Quadratic Equations Using Square Roots • Algebra Nation Topic – Section 6 Video 4-7	Lesson 16.2 - Khan Academy Lesson 16.3 - Khan Academy Lesson 16.1 – Khan Academy
	4 1/23 – 1/27	**Unit 7 - Quadratics** • 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 – Solving $ax^2+bx+c = 0$ by The Quadratic Formula • Algebra Nation Topic – Section 6 Video 2 & 8 • Algebra Nation Topic – Section 7 Video 5	Lesson 16.4 - Khan Academy Lesson 16.5 - Khan Academy Lesson 16.6 - Khan Academy
	5 1/30 – 2/3	**Unit 7 - Quadratics** • Algebra Nation Topic – Section 6 Video 1 & 9 • Lesson 17.4 Characteristics of Quadratic Functions • Algebra Nation Topic - Section 7 Video 1 • Lesson 17.5 Solving Quadratic Equations Graphically • Lesson 17.1 – Translating Quadratic Functions & Vertex Form • Lesson 17.2 – Stretching, Shrinking, and Reflecting Quadratic Functions • Algebra Nation Topic – Section 7 Video 4 & 6 • Lesson 17.3 – Combined Transformations (AN 7 V4)	Lesson 17.4 - Khan Academy Lesson 17.1 - Hotmath Lesson 17.2 - Hotmath Lesson 17.3 - Hotmath
	6 2/6 – 2/10	**Unit 7 - Quadratics** • 17.6 End Behavior (Algebra Nation Topic 7 V6) – Graphing Polynomial Functions • Comparing Linear, Quadratic, Exponential - Algebra Nation Section 9 Video 1 • Comparing Functions using tables Algebra Nation Section 9 Video 2) • Quadratic Word Problems (Projectile Motion, Area) Algebra Nation Section 6 Video 9	Lesson 17.6 - Spohia.org
	7 2/13 – 2/16	**Unit 8 – Functions Wrap-up – Roots, Absolute Value, Piece-Wise and Transformations** • 19.1 Square Root Functions • 19.2 Transforming Square Root Functions • 18.1 Piecewise Functions	Lesson 18.1 - Khan Academy

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		• 18.2 Absolute Value Functions	Lesson 18.2 - Khan Academy
	8 2/21 – 2/24	**Unit 8 – Functions Wrap-up – Roots, Absolute Value, Piece-Wise and Transformations** • 18.3 Transforming Absolute Value Functions • Transformations Recap (Algebra Nation Section 4 Video 5 & 6 and Section 9 Video 1 & 2) • Modeling Linear Functions (Algebra Nation Section 9 Video 3)	
	9 2/27 – 3/3	**Unit 8 – Functions Wrap-up – Roots, Absolute Value, Piece-Wise and Transformations** • Modeling Quadratic Functions (Algebra Nation Section 9 Video 4) • Modeling Exponential Functions (Algebra Nation Section 9 Video 5)	
	10 3/6 – 3/10	**Unit 9 – Data and Statistics** • 13.1 Measures of Center and Spread • 13.2 Data and Outliers	Lesson 13.2 - Khan Academy

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Algebra 1 2016 – 2017

	Week	Major Concepts / Topics	Possible Resources
Quarter 4 Mar 21 – May 24	1 3/12 – 3/24	**Unit 9 – Data and Statistics** • 13.3 Histograms • 13.4 Box Plots • 13.5 Normal Distributions	Lesson 13.3 - Khan Academy Lesson 13.4 - Khan Academy
	2 3/27 – 3/31	**Unit 9 – Data and Statistics** • 12.1 Two-Way Frequency Tables • 12.2 Relative Frequency	Lesson 12.1 - Khan Academy Lesson 12.2 - Khan Academy
	3 4/3 – 4/7	**Unit 9 – Data and Statistics** • 8.1 Correlation • 8.2 Fitting Lines to Data • 8.3 Linear Regression	Lesson 8.1 - Khan Academy Lesson 8.2 - Khan Academy Lesson 8.3 - Stattrek
	4 4/10 – 4/13	**Unit 9 – Data and Statistics** • 11.1 Quadratic and Exponential Regression	
	5 4/17 – 4/21	• Standards Based Performance Tasks	Algebra 1 Standards – Florida Student
	6 4/24 – 4/28	• Standards Based Performance Tasks	
	7 5/1 – 5/5	• Standards Based Performance Tasks	
	8 5/8 – 5/12	• Standards Based Performance Tasks	
	9 5/15 – 5/19	• FINAL EXAMS	
	10 5/22 – 5/24	• FINAL EXAMS	

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