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Publisher Resource:

HMH (Holt McDougal) (use student Active Directory)

Other Course Supplemental Resources:

Math Nation (use student Active Directory)

Algebra 1 (Khan Academy)

IXL Math – High School Standards

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

Algebra 1 FSA EOC Mathematics Computer-Based PRACTICE TEST
        Algebra 1 FSA Computer-Based Practice Test Answer Key

Mathematics Practice Tests – PARCC (Partnership for Assessment of Readiness for College and Careers)
        Mathematics Answer Keys – PARCC

Algebra 1 2017 – 2018

	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 13	1 8/10 - 8/11	**Unit 1 – Working with Expressions** • Welcome/ Syllabus	
	2 8/14 – 8/18	**Unit 1 – Working with Expressions** • Number Sense (Operations of Real Numbers) • Lesson 2.2, 3.2 p.38 Properties of Real Numbers (Associative, Commutative, Identity, Distributive) • Lesson 2.2 p.41, 42 Rational & Irrational Properties (Sum and Product of Rational & Irrational) • Lesson 3.1 p.52 – Order of Operations • Lesson 4.1 p.89 – Equations in One Variable multi-step	Lesson 3.2 - Khan Academy
	3 8/21 – 8/25	**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 pg.89 – Solving Equations in One Variable multi-step (Variable on Both Sides, Combining Like Terms, Justify Steps, Include fractional coefficients) • Lesson 4.2 p.97 – Solving Inequalities in One Variable (Combining Like Terms, Justify Steps, Include fractional coefficients) • Solving & Graphing Compound Inequalities • Lesson 4.3 p.107 - Solving Literal Equations • Lesson 4.1 & 4.2- Solving Equations & Inequalities in Real-Life Situations	Lesson 4.1 - Khan Academy Lesson 4.2 - Khan Academy Lesson 4.3 - Khan Academy
	4 8/28 – 9/1	**Unit 2 – Solving Equations & Inequalities in One Variable on One Side & Both Sides (Use up to 4 steps to isolate the variable)** • Lesson 4.3 p.107 - Solving Literal Equations • Lesson 4.3 p.107 - Solving Literal Equations • Lesson 4.1 & 4.2- Solving Equations & Inequalities in Real-Life Situations	
	5 9/5 – 9/8	**Unit 3 – Introduction to Functions** • Introduction to Functions - Is it a Function? • Introduction to Functions – Domain and Range • Introduction to Functions – Solutions True or False?	Lesson 5.1 - Khan Academy

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	6 9/11 – 9/15	**Unit 3 – Introduction to Functions** • Introduction to Functions –Parent Functions **Unit 4 – Linear Functions & Inequalities** • Lesson 6.1 - p.155 Linear Functions • Lesson 6.2 - p.163 Using Intercepts, Standard Form • Lesson 6.3 - p.171 Using Slope as Average Rate of Change	Lesson 6.1 - Khan Academy Lesson 6.2 - Khan Academy Lesson 6.3 - Khan Academy
	7 9/18 – 9/22	**Unit 4- Linear Functions & Inequalities** • Lesson 6.4 – p.179 Graphing Linear Equations using Slope Intercept Form • Lesson 6.5 – p.187 Comparing Linear Functions, • Lesson 6.6 – p.193 Transforming Linear Functions (Interpreting Key Features)	Lesson 6.4 - Khan Academy Lesson 6.5 – Khan Academy Lesson 6.6 - Math Learning
	8 9/25 – 9/29	**Unit 4- Linear Functions & Inequalities** • Lesson 6.7 – p.201 Writing Linear Functions from a word problem or graph. • Lesson 7.2 – p.219 Operations with Linear Functions (Combining Functions) • Lesson 7.4 – p.233 Linear Inequalities in Two Variables	Lesson 6.7 – Khan Academy
	9 10/2 – 10/6	**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
	10 10/9 – 10/13	**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	Lesson 9.3 - Khan Academy Lesson 9.4 - Khan Academy

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Algebra 1   2017 – 2018

	Week	Major Concepts / Topics	Possible Resources
Quarter 2 Oct 17 – Dec 21	1 10/17 – 10/20	**Unit 5 – System of Linear Equations & Inequalities** • Real World Problems • Lesson 9.5 – p.311 Solving Systems of Linear Inequalities	Lesson 9.5 - Khan Academy Khan Academy
	2 10/23 – 10/27	**Unit 6 – Exponential Functions** • Lesson 2.1 – p31 Properties of Exponents (Fractional Exponents) • Rewrite Radical Expressions as Rational Exponents • Operations with Radical & Rational Exponents	Lesson 2.1 – Khan Academy Rewrite Radical Expressions -Khan Academy
	3 10/30 – 11/3	**Unit 6 – Exponential Functions** • Lesson 10.1 – p.337 Exponential Functions (Identifying Parts) • Lesson 10.2 – p.345 Recognizing Growth & Decay Given a Table or Graph • Real World Exponential Functions	Lesson 10.1 - Khan Academy Lesson 10.2 - Khan Academy Real World – Khan Academy
	4 11/6 – 11/9	**Unit 6 – Exponential Functions** • Graph Exponential Functions by a table, intercepts, and describe the end behavior • Lesson 10.4 – p.361 Transformations of Exponential Functions	Graphs – Khan Academy Lesson 10.4 - Study.com
	5 11/13 – 11/17	**Unit 7 – Polynomials** • Lesson 14.2 – Adding & Subtracting Polynomials • Lesson 14.3 – Multiply Polynomials by Monomials • Lesson 14.4 – Multiply Polynomials	Operations with polynomials – Khan Academy
	6 11/20 – 11/21	• Assessment	
	7 11/27 – 12/1	**Unit 7 - Quadratics** • Lesson 15.1 Factoring Polynomials • Lesson 15.2 Factoring $x^2 + bx + c$ • Lesson 15.3 Factoring ax^2+bx+c	Lesson 15.1 - Khan Academy Lesson 15.2 - Khan Academy Lesson 15.3 - Khan Academy
	8 12/4 – 12/8	**Unit 7 - Quadratics** • Lesson 15.4 Factoring Special Products • Review	Lesson 15.4 - Khan Academy
	9 12/11 – 12/15	• Review • District Exams	
	10 12/18 – 12/21	• District Exams	

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Algebra 1   2017 – 2018

	Week	Major Concepts / Topics	Possible Resources
Quarter 3 Jan 8 – Mar 15	1 1/8 – 1/12	**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 16.2 - [Khan Academy] Lesson 16.3 - [Khan Academy]
	2 1/16 – 1/19	**Unit 7 – Quadratics** • Lesson 16.1 – Solving Quadratic Equations Using Square Roots • Lesson 16.4 – Solving $x^2+bx+c = 0$ by Completing the Square • Lesson 16.6 – Solving $ax^2+bx+c = 0$ by The Quadratic Formula	Lesson 16.1 – [Khan Academy] Lesson 16.4 - [Khan Academy]
	3 1/22 – 1/26	**Unit 7 – Quadratics** • Lesson 16.6 – Solving $ax^2+bx+c = 0$ by The Quadratic Formula • Lesson 17.4 - Characteristics of Quadratic Functions	Lesson 16.6 - [Khan Academy] Lesson 17.4 – [Khan Academy]
	4 1/30 – 2/2	**Unit 7 – Quadratics** • Domain and Range • Lesson 17.1 – Translating Quadratic Functions & Vertex Form	Lesson 17.1 – [Khan Academy]
	5 2/5 – 2/9	**Unit 7 - Quadratics** • Lesson 17.2 – Stretching, Shrinking, and Reflecting Quadratic Functions • Lesson 17.3 – Combined Transformations • Word Problems	Lesson 17.2 - [Hotmath] [Khan Academy] Lesson 17.3 - [Hotmath]
	6 2/12 – 2/16	**Unit 8 – Functions Wrap-up – Roots, Absolute Value, Piece-Wise and Transformations** • Lesson 5.3 Arithmetic Sequences • Lesson 7.1 Arithmetic Sequences • Lesson 10.3 Geometric Sequences	Lesson 5.3 - [Khan Academy] Lesson 10.3 - [Khan Academy]
	7 2/20 – 2/23	**Unit 8 – Functions Wrap-up – Roots, Absolute Value, Piece-Wise and Transformations** • Comparing Linear, Quadratic, Exponential • Comparing Functions using tables	
	8 2/26 – 3/2	**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 • 18.2 Absolute Value Functions	Lesson 18.1 - [Khan Academy]

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	9 3/5 – 3/9	**Unit 8 – Functions Wrap-up – Roots, Absolute Value, Piece-Wise and Transformations** • 18.3 Transforming Absolute Value Functions	
	10 3/12 – 3/15	**Unit 9 – Data and Statistics** • 13.1 Measures of Center and Spread • 13.2 Data and Outliers • 13.3 Histograms	Lesson 13.2 - Khan Academy

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Quarter 4 Mar 19 – May 24	1 3/19 – 3/23	**Unit 9 – Data and Statistics** • 13.4 Box Plots • 13.5 Normal Distributions • 12.1 Two-Way Frequency Tables • 12.2 Relative Frequency	Lesson 13.4 - Khan Academy Lesson 12.1 - Khan Academy Lesson 12.2 - Khan Academy
	2 3/26 – 3/30	• **SPRING BREAK – NO SCHOOL**	
	3 4/2 – 4/6	**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 4/9 – 4/13	**Unit 9 – Data and Statistics** • 11.1 Quadratic and Exponential Regression • Standards Based Performance Tasks	
	5 4/16 – 4/20	• Standards Based Performance Tasks	Algebra 1 Standards – Florida Student
	6 4/23 – 4/27	• Standards Based Performance Tasks	
	7 4/30 – 5/4	• Standards Based Performance Tasks	
	8 5/7 – 5/11	• Standards Based Performance Tasks	
	9 5/14 – 5/18	• FINAL EXAMS	
	10 5/21 – 5/24	• FINAL EXAMS	

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