Please Note:

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Publisher Resource:

Pearson (select your grade and course level and use your active directory)

Other Course Supplemental Resources:

Khan Academy (Algebra 1; does not support Internet Explorer)

Math Nation (Clever – use your active directory; does not support Internet Explorer)

FSA Portal
- Algebra 1 EOC Test Item Specifications
- Algebra 1 FSA Computer-Based Practice Test Answer Key

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

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	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 12 – Oct 11	1 8/12 – 8/16	• 1.1 Operations on real numbers • 1.2 Solving linear equations • 1.3 Solving equations with variables on both sides	Operations on Numbers – Khan Academy Solving Equations – Khan Academy Solving Linear Equations With Variables on Both Sides – Khan Academy
	2 8/19 – 8/23	• 1.3 Solving equations with variables on both sides • 1.4 Literal equations and formulas • 1.5 Solving inequalities in one variable • 1.6 Compound inequalities	Solving Linear Equations With Variables on Both Sides – Khan Academy Solving Inequalities – Khan Academy Compound Inequalities – Khan Academy
	3 8/26 – 8/30	• 1.6 Compound inequalities • 1.7 Absolute value equations and inequalities • Mathematical modeling in 3 acts • STEM project	Compound Inequalities – Khan Academy Absolute Value Function – Khan Academy
	4 9/3 – 9/6	• Labor Day Holiday – 9/2 • R & A • 2.1 Slope intercept form	Slope Intercept Form – Khan Academy
	5 9/9 – 9/13	• 2.1 Slope intercept form • 2.2 Point slope form • 2.3 Standard form	Slope Intercept Form – Khan Academy Point Slope Form – Khan Academy Standard Form – Khan Academy
	6 9/16 – 9/20	• 2.3 Standard form • Mathematical modeling in 3 acts • STEM project • R & A	Standard Form – Khan Academy
	7 9/23 – 9/27	• R & A • 3.1 Relations and Functions • 3.2 Linear Functions • 3.3 Transforming linear functions	Functions – Khan Academy Linear Functions – Khan Academy
	8 9/30 – 10/4	• 3.3 Transforming linear functions • 3.4 Arithmetic sequences • 3.5 Scatter plots and lines of best fit • 3.6 Analyzing lines of fit	Arithmetic Sequences – Khan Academy

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	9 10/7 – 10/11	• 3.6 Analyzing lines of fit • Mathematical modeling in 3 acts • STEM project • R & A	

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	Week	Major Concepts / Topics	Possible Resources
Quarter 2 Oct 15 – Dec 20	1 10/15 – 10/18	• 4.1 Solving systems by graphing • 4.2 Solving systems by substitution	Solving Systems by Substitution – Khan Academy
	2 10/21 – 10/25	• 4.2 Solving systems by substitution • 4.3 Solving systems by elimination • 4.4 Linear inequalities	Solving Systems by Substitution – Khan Academy Solving Systems by Elimination – Khan Academy Linear Inequalities – Khan Academy
	3 10/28 – 11/1	• 4.4 Linear inequalities • 4.5 Systems of linear inequalities • Mathematical modeling in 3 acts • STEM project	
	4 11/4 – 11/8	• R & A • 5.1 Absolute value function • 5.2 Piece-wise functions	Absolute Value and Piece-wise Functions – Khan Academy
	5 11/12 – 11/15	• Veterans Day 9/11 • 5.2 Piece-wise functions • 5.3 Step functions	Piece-wise Functions – Khan Academy Step Functions – Khan Academy
	6 11/18 – 11/22	• 5.4 Transformations of piece-wise functions • R & A	Transformations of Piece-wise Functions – Khan Academy
	7 11/25 – 11/26	• Thanksgiving Holiday 11/27 - 11/29 • Mathematical modeling in 3 acts • STEM project	
	8 12/2 – 12/6	• 6.1 Rational exponents and properties of exponents • 6.2 Exponential functions	Exponents – Khan Academy Exponential Functions – Khan Academy
	9 12/9 – 12/13	• 6.3 Exponential growth and decay • R & A	Exponential Growth and Decay – Khan Academy
	10 12/16 – 12/20	• EXAM WEEK	

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Quarter 3 Jan 6 – Mar 12	1 1/6– 1/10	• 6.4 Geometric sequences • 6.5 transformations of exponential functions • Mathematical modeling in 3 acts	Geometric Sequences – Khan Academy Transformations of Exponential Functions – Khan Academy
	2 1/13 – 1/17	• STEM project • R & A • 7.1 Adding and subtracting polynomials	Adding and Subtracting Polynomials – Khan Academy
	3 1/21 – 1/24	• Martin Luther King Jr. Holiday 1/20 • 7.2 Multiplying polynomials • 7.3 Multiplying special cases • 7.4 Factoring polynomials	Multiplying Polynomials – Khan Academy Multiplying Special Cases – Khan Academy
	4 1/27 – 1/30	• Teacher Inservice 1/31 • 7.4 Factoring polynomials • R & A • 7.5 Factoring	Factorization – Khan Academy Factoring Polynomials – Khan Academy
	5 2/3 – 2/7	• 7.5 Factoring • 7.6 Factoring • 7.7 Factoring special cases	Factorization – Khan Academy Factoring Special Cases – Khan Academy
	6 2/10 – 2/14	• Mathematical modeling in 3 acts • STEM project • R & A • 8.1 Key features of quadratic functions	Quadratics – Khan Academy Features and Forms of Quadratics – Khan Academy
	7 2/17 – 2/21	• Presidents Day Holiday 2/17 • 8.1 Key features of quadratic functions • 8.2 Quadratic functions in vertex form • 8.3 Quadratic functions in standard form	Features and Forms of Quadratics – Khan Academy Quadratics – Khan Academy Quadratic Functions in Vertex Form – Khan Academy Quadratic Functions in Standard Form – Khan Academy

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	8 2/24 – 2/28	• 8.3 Quadratic functions in standard form • 8.4 Modeling with quadratic functions • Mathematical modeling in 3 acts • STEM project	Quadratic Functions in Standard Form – Khan Academy Graphing Quadratics – Khan Academy
	9 3/2 – 3/6	• R & A • 9.1 Solving quadratic equations • 9.2 Solving quadratic equations by factoring	Solving Quadratic Equations by Factoring – Khan Academy
	10 3/9 – 3/12	• 9.3 Rewriting radical expressions • 9.4 Solving quadratic equations using square roots • 9.5Completing the square	Rewriting Radical Expressions – Khan Academy Solving Quadratics by Taking Square Roots – Khan Academy Completing the Square – Khan Academy

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Quarter 4 Mar 23 – May 27	1 3/16 – 3/20	• **SPRING BREAK – NO SCHOOL**	
	2 3/23 – 3/27	• **9.5 Completing the square** • **9.6 The quadratic formula and the discriminant** • Mathematical modeling in 3 acts • STEM project	Completing the Square – Khan Academy
	3 3/30 – 4/3	• R & A • 10.1 Square root function • 10.2 Cube root function • 10.3 Analyzing functions graphically	Radicals – Khan Academy Introduction to Square Roots – Khan Academy Introduction to Cube Roots – Khan Academy
	4 4/6 – 4/9	• 10.4 Translations of functions • 10.5 Compressions and stretches of functions • 10.6 Operations of functions • STEM Project • Holiday 4/10	
	5 4/14 – 4/17	• Holiday 4/13 • R & A • 11.1 Analyzing data displays	
	6 4/20 – 4/24	• 11.2 Comparing data sets • 11.3 Interpreting the sets of data displays • 11.4 Standard deviation • 11.5 Two way frequency tables	
	7 4/27 – 5/1	• Mathematical modeling in 3 acts • STEM project • R & A • 8.5 Linear exponential and quadratic models	Linear Exponential and Quadratic Models – Khan Academy

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	8 5/4 – 5/8	• Standards review	
	9 5/11 – 5/15	• Standards review	
	10 5/18 – 5/22	• Standards review	
	11 5/25 – 5/27	• Standards review	

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