

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; program 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 31 - Oct 30	1 8/31 – 9/4	<ul style="list-style-type: none"> • 1.1 Operations on real numbers • 1.2 Solving linear equations • 1.3 Solving equations with variables on both sides • 1.4 Literal equations and formulas 	Unit: Irrational numbers - Khan Academy Rational vs. irrational expressions - Khan Academy Sum and product of 2 rational #'s is rational – Khan Academy Produce of rational and irrational is irrational - Khan Academy Sum of rational and irrational is irrational - Khan Academy Sums and products of irrational numbers - Khan Academy Unit: Linear equations and graphs - Khan Academy Variables, expressions and equations - Khan Academy
	2 9/7 – 9/11	<ul style="list-style-type: none"> • Labor Day Holiday – 9/7 • 1.5 Solving inequalities in one variable • 1.6 Compound inequalities • 1.7 Absolute value equations and inequalities 	Unit: Solving equations - Khan Academy Variables on Both Sides – Khan Academy Intro to equations with variables on both sides - Khan Academy Solving an equation for a variable - Khan Academy Unit: Solving inequalities - Khan Academy Testing solutions to an inequality - Khan Academy Plotting an inequality - Khan Academy One step inequality - Khan Academy Two step inequality - Khan Academy Inequalities with variables on both sides - Khan Academy Compound inequalities: OR - Khan Academy Compound inequalities: AND - Khan Academy Unit: Absolute value and piecewise functions - Khan Academy Graphing absolute value functions – Khan Academy
	3 9/14 – 9/18	<ul style="list-style-type: none"> • Remediation/Review • Assessment • 2.1 Slope intercept form 	Unit: Forms of linear equations - Khan Academy Slope intercept form – Khan Academy
	4 9/21 – 9/25	<ul style="list-style-type: none"> • 2.2 Point slope form • 2.3 Standard form 	Point slope form - Khan Academy Standard form - Khan Academy
	5 9/28 – 10/2	<ul style="list-style-type: none"> • Remediation • Review • Assessment • 3.1 Relations and Functions 	Unit: functions - Khan Academy Relations and functions - Khan Academy What is a function - Khan Academy

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	<p>6 10/5 – 10/9</p>	<ul style="list-style-type: none"> • 3.2 Linear Functions • 3.3 Transforming linear functions • 3.4 Arithmetic sequences 	<p>Recognizing linear functions - Khan Academy Linear transformations - Khan Academy <i>Unit: Sequences</i> - Khan Academy Intro to arithmetic sequences – Khan Academy</p>
	<p>7 10/12 – 10/16</p>	<ul style="list-style-type: none"> • PSAT 10/14 • 3.5 Scatter plots and lines of best fit • 3.6 Analyzing lines of fit • Remediation • Review 	<p><i>Unit: Data and modeling</i> - Khan Academy Scatter Plots and Lines of Fit - Khan Academy</p>
	<p>8 10/19 – 10/23</p>	<ul style="list-style-type: none"> • Assessment • 4.1 Solving systems by graphing • 4.2 Solving systems by substitution 	<p><i>Unit: Systems of equations</i> - Khan Academy Solving systems with graphing - Khan Academy Solving systems by substitution – Khan Academy</p>
	<p>9 10/26 – 10/30</p>	<ul style="list-style-type: none"> • 4.2 Solving systems by substitution • 4.3 Solving systems by elimination 	<p>Solving systems by elimination – Khan Academy</p>

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Quarter 2 Nov 2 - Jan 25*	1 11/2 – 11/6	<ul style="list-style-type: none"> Teacher Planning Day 11/3 4.4 Linear inequalities 4.5 Systems of linear inequalities 	Inequalities with variables on both sides - Khan Academy Systems of inequalities - Khan Academy
	2 11/9 – 11/13	<ul style="list-style-type: none"> Veterans Day 11/11 Remediation Review Assessment 	
	3 11/16 – 11/20	<ul style="list-style-type: none"> 6.1 Rational exponents and properties of exponents 6.2 Exponential functions 6.3 Exponential growth and decay 	<i>Unit: Exponents and radicals - Khan Academy</i> Exponent properties: products - Khan Academy Exponent properties: parentheses - Khan Academy Exponent properties: quotients - Khan Academy Negative exponents - Khan Academy Multiplying and dividing powers - Khan Academy Powers of products and quotients - Khan Academy Powers of zero - Khan Academy Intro to exponential functions - Khan Academy <i>Unit: Exponential growth and decay - Khan Academy</i> Graphing exponential growth and decay - Khan Academy
	4 11/23 – 11/27	<ul style="list-style-type: none"> Remediation Review Assessment Thanksgiving Holiday 11/25 - 11/27 	
	5 11/30 – 12/4	<ul style="list-style-type: none"> 6.4 Geometric sequences 6.5 Transformations of exponential functions Remediation 	<i>Unit: Sequences - Khan Academy</i> Intro to geometric sequences – Khan Academy Transformations of exponential functions - Khan Academy
	6 12/7 – 12/11	<ul style="list-style-type: none"> Review Assessment 7.1 Adding and subtracting polynomials 	<i>Unit: Quadratics: Multiplying and factoring - Khan Academy</i> Adding polynomials – Khan Academy
	7 12/14 – 12/18	<ul style="list-style-type: none"> 7.2 Multiplying polynomials 7.3 Multiplying special cases Winter Break 12/21 – 1/1 	Intro to multiplying polynomials – Khan Academy Special products $(x+a)(x-a)$ – Khan Academy Squaring binomials - Khan Academy

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	8 1/4 – 1/8	<ul style="list-style-type: none"> 7.4 Factoring polynomials 7.5 Factoring 	Intro to factoring – Khan Academy <i>Unit: Factorization</i> – Khan Academy Factoring with the distributive property – Khan Academy Taking a common factor - Khan Academy Common binomial factor - Khan Academy
	9 1/11 – 1/15	<ul style="list-style-type: none"> 7.6 Factoring 7.7 Factoring special cases 	Factoring as $(x+a)(x+b)$ - Khan Academy Intro to factoring by grouping - Khan Academy Difference of squares - Khan Academy Perfect squares - Khan Academy Special product forms - Khan Academy
	10 1/18 – 1/22*	<ul style="list-style-type: none"> Martin Luther King Jr. Holiday 1/18 Remediation Review Assessment *Second Quarter/First Semester Ends – Monday, January 25, 2021 	

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Quarter 3 Jan 26 – Apr 8	1 1/25* – 1/29	<ul style="list-style-type: none"> • 8.1 Key features of quadratic functions • 8.2 Quadratic functions in vertex form • Teacher Planning Day 1/29 	Unit: Quadratic functions and equations - Khan Academy Parabolas intro - Khan Academy Forms and features of quadratics – Khan Academy Intro to vertex form – Khan Academy
	2 2/1 – 2/5	<ul style="list-style-type: none"> • 8.3 Quadratic functions in standard form • 8.4 Modeling with quadratic functions • 8.5 Linear exponential and quadratic models 	Graphing quadratics: standard form - Khan Academy
	3 2/8 – 2/12	<ul style="list-style-type: none"> • Remediation • Review • Assessment 	
	4 2/15 – 2/19	<ul style="list-style-type: none"> • Presidents Day Holiday 2/15 • 9.1 Solving quadratic equations • 9.2 Solving quadratic equations by factoring • 9.3 Rewriting radical expressions 	Solving quadratics by factoring - Khan Academy Intro to rational exponents - Khan Academy Rewriting roots as rational exponents - Khan Academy
	5 2/22 – 2/26	<ul style="list-style-type: none"> • 9.4 Solving quadratic equations using square roots • 9.5 Completing the square • 9.6 The quadratic formula and the discriminant • 9.7 Solving Systems of Linear and Quadratic Equations 	Solving quadratics by taking square roots – Khan Academy Completing the square – Khan Academy Quadratic formula - Khan Academy Discriminant (practice) - Khan Academy
	6 3/1 – 3/5	<ul style="list-style-type: none"> • Remediation • Review • Assessment • 5.1 Absolute value function 	Unit: Absolute value and piecewise functions - Khan Academy Graphing absolute value – Khan Academy
	7 3/8 – 3/12	<ul style="list-style-type: none"> • 5.2 Piece-wise functions • 5.3 Step functions • 5.4 Transformations of piece-wise functions 	Intro to piece-wise functions – Khan Academy Domain and range of step functions - Khan Academy Shifting absolute value graphs - Khan Academy
	8 3/15 – 3/19	<ul style="list-style-type: none"> • Remediation/Review • Assessment • Spring Break 3/17 – 3/19 	
	9 3/22 – 3/26	<ul style="list-style-type: none"> • 10.1 Square root function • 10.2 Cube root function • 10.3 Analyzing functions graphically 	Graphing square root and cube root functions - Khan Academy

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	<p>10 3/29 – 4/2</p>	<ul style="list-style-type: none"> • 10.4 Translations of functions • 10.5 Compressions and stretches of functions • 10.6 Operations of functions • Holiday 4/2 	<p>Identifying function transformations - Khan Academy Reflecting and compressing functions - Khan Academy Identifying horizontal squash - Khan Academy</p>
	<p>11 4/5 – 4/9</p>	<ul style="list-style-type: none"> • 10.7 Inverse Operations • Remediation • Review • Assessment • Teacher Planning Day 4/9 	

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Quarter 4 Apr 12 – Jun 10	1 4/12 – 4/16	<ul style="list-style-type: none"> 11.1 Analyzing data displays 11.2 Comparing data sets 11.3 Interpreting the sets of data displays 	
	2 4/19 – 4/23	<ul style="list-style-type: none"> 11.4 Standard deviation 11.5 Two-way frequency tables 11.6 Data Distributions 	Two way frequency tables (8th grade standards) - Khan Academy Two-way frequency tables (practice) - Khan Academy
	3 4/26 – 4/30	<ul style="list-style-type: none"> 11.7 Normal Distributions Remediation Review Assessment 	
	4 5/3 – 5/7 May 3 - FSA Testing Window Opens	<ul style="list-style-type: none"> 12.1 Polynomial Identities 12.2 Dividing Polynomials 12.3 Inverse Variation and the Reciprocal Functions 12.4 Graphing Rational Functions 	Polynomial Identities - Khan Academy Dividing polynomials - Khan Academy Inverse variation - Khan Academy Graphing rational functions - Khan Academy
	5 5/10 – 5/14	<ul style="list-style-type: none"> 12.5 Multiplying and Dividing Rational Expressions 12.6 Adding and Subtracting Rational Expressions 12.7 Solving Rational Equations 12.8 Solving Radical Equations Remediation/Review Assessment 	Multiplying and dividing rational expressions - Khan Academy Adding and subtracting rational expressions - Khan Academy Intro to rational equations - Khan Academy Intro to square root equations - Khan Academy
	6 5/17 – 5/21	<ul style="list-style-type: none"> Course Standards Review 	
	7 5/24 – 5/28	<ul style="list-style-type: none"> Course Standards Review 	
	8 5/31 – 6/4	<ul style="list-style-type: none"> Memorial Day Holiday 5/31 Course Standards Review 	
	9 6/7 – 6/10	<ul style="list-style-type: none"> Course Standards Review 	

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