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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

	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 16 – Oct 15	1 8/16 – 8/20	• STEM project • 1.1 Operations on real numbers • 1.2 Solving linear equations	*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 8/23 – 8/27	• 1.3 Solving equations with variables on both sides • 1.4 Literal equations and formulas • 1.5 Solving inequalities in one variable	*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
	3 8/30 – 9/3	• 1.6 Compound inequalities • 1.7 Absolute value equations and inequalities • Remediation	Compound inequalities: OR - Khan Academy Compound inequalities: AND - Khan Academy *Unit: Absolute value and piecewise functions* - *Khan Academy* Graphing absolute value functions – Khan Academy
	4 9/6 – 9/10	• Labor Day Holiday – 9/6 • Review • Assessment • 2.1 Slope intercept form	*Unit: Forms of linear equations* - *Khan Academy* Slope intercept form – Khan Academy
	5 9/13 – 9/17	• Interims Issued – 9/14 • 2.2 Point slope form • 2.3 Standard form	Point slope form - Khan Academy Standard form - Khan Academy
	6 9/20 – 9/24	• Remediation • Review • Assessment	
	7 9/27 – 10/1	• 3.1 Relations and Functions • 3.2 Linear Functions • 3.3 Transforming linear functions	*Unit: functions* - *Khan Academy* Relations and functions - Khan Academy What is a function - Khan Academy Recognizing linear functions - Khan Academy Linear transformations - Khan Academy

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	8 10/4 – 10/8	• 3.4 Arithmetic sequences • 3.5 Scatter plots and lines of best fit • 3.6 Analyzing lines of fit	*Unit: Sequences -* [Khan Academy](#) Intro to arithmetic sequences – [Khan Academy](#) *Unit: Data and modeling -* [Khan Academy](#) Scatter Plots and Lines of Fit - [Khan Academy](#)
	9 10/11 – 10/15	• Remediation • Review • PSAT/NMSQT – 10/13 • Assessment	

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	Week	Major Concepts / Topics	Possible Resources
Quarter 2 Oct 19 – Dec 21	1 10/19 – 10/22	• 4.1 Solving systems by graphing • 4.2 Solving systems by substitution	*Unit: Systems of equations - Khan Academy* Solving systems with graphing - Khan Academy Solving Systems by Substitution – Khan Academy
	2 10/25 – 10/29	• Report Cards – 10/26 • 4.3 Solving systems by elimination • 4.4 Linear inequalities	Solving Systems by Elimination – Khan Academy Inequalities with variables on both sides - Khan Academy
	3 11/1 – 11/5	• 4.5 Systems of linear inequalities • Remediation • Review	Systems of inequalities - Khan Academy
	4 11/8 – 11/12	• Assessment • 6.1 Rational exponents and properties of exponents • Veterans Day 11/11	*Unit: Exponents and radicals - Khan Academy* 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
	5 11/15 – 11/19	• Interims Issued – 11/16 • 6.2 Exponential functions • 6.3 Exponential growth and decay • Remediation	Intro to exponential functions - Khan Academy *Unit: Exponential growth and decay - Khan Academy* Graphing exponential growth and decay - Khan Academy
	6 11/22 – 11/26	• Review • Assessment • Thanksgiving Holiday 11/24 – 11/26	
	7 11/29 – 12/3	• 6.4 Geometric sequences • 6.5 Transformations of exponential functions •	*Unit: Sequences - Khan Academy* Intro to geometric sequences – Khan Academy Transformations of exponential functions - Khan Academy
	8 12/6 – 12/10	• Remediation • Review • Assessment	
	9 12/13 – 12/17	• Midterms	
	10 12/20 – 12/24	• Second Quarter/First Semester Ends – 12/21 • Winter Break – 12/22 – 1/4	

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Algebra 1   2021-2022

	Week	Major Concepts / Topics	Possible Resources
Quarter 3 Jan 6 – Mar 10	1 1/6 – 1/7	• 7.1 Adding and subtracting polynomials • 7.2 Multiplying polynomials • 7.3 Multiplying special cases	Unit: *Quadratics: Multiplying and factoring* - Khan Academy Adding polynomials – Khan Academy Intro to multiplying polynomials – Khan Academy Special products (x+a)(x-a) – Khan Academy Squaring binomials - Khan Academy
	2 1/10 – 1/14	• 7.4 Factoring polynomials • 7.5 Factoring $x^2 + bx + c$ • 7.6 Factoring $ax^2 + bx + c$	Intro to factoring – Khan Academy
	3 1/17 – 1/21	• Martin Luther King Jr. Holiday – 1/17 • 7.7 Factoring special cases • Report Cards – 1/19	Difference of squares - Khan Academy Perfect squares - Khan Academy Special product forms - Khan Academy
	4 1/24 – 1/28	• Remediation • Review	
	5 1/31 – 2/4	• Assessment • 8.1 Key features of quadratic functions • 8.2 Quadratic functions in vertex form	*Unit: Quadratic functions and equations* - Khan Academy Parabolas intro - Khan Academy Forms and features of quadratics – Khan Academy Intro to vertex form – Khan Academy
	6 2/7 – 2/11	• Teacher Inservice – 2/7 • Interims Issued – 2/8 • 8.3 Quadratic functions in standard form • 8.4 Modeling with quadratic functions	Graphing quadratics: standard form - Khan Academy
	7 2/14 – 2/18	• 8.5 Linear exponential and quadratic models • Remediation	
	8 2/21 – 2/25	• Presidents Day Holiday – 2/21 • Review • Assessment • 9.1 Solving quadratic equations	
	9 2/28 – 3/4	• 9.2 Solving quadratic equations by factoring • 9.3 Rewriting radical expressions • 9.4 Solving quadratic equations using square roots	Solving quadratics by factoring - Khan Academy Intro to rational exponents - Khan Academy Rewriting roots as rational exponents - Khan Academy Solving quadratics by taking square roots – Khan Academy
	10 3/7 – 3/10	• 9.5 Completing the square • 9.6 The quadratic formula and the discriminant	Completing the square – Khan Academy Quadratic formula - Khan Academy

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			Discriminant (practice) - Khan Academy
	Week	**Major Concepts / Topics**	**Possible Resources**
Quarter 4 Mar 14 – June 2	1 3/14 – 3/18	• **SPRING BREAK – NO SCHOOL**	
	2 3/21 – 3/25	• Remediation • Review • Assessment • 5.1 Absolute value function	*Unit: Absolute value and piecewise functions* - *Khan Academy* Graphing absolute value – Khan Academy
	3 3/28 – 4/1	• Report Cards – 3/29 • 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
	4 4/4 – 4/8	• Remediation/Review • Assessment • 10.1 Square root function • 10.2 Cube root function	Graphing square root and cube root functions - Khan Academy
	5 4/11 – 4/15	• 10.3 Analyzing functions graphically • 10.4 Translations of functions • 10.5 Compressions and stretches of functions • Holiday – 4/15	Identifying function transformations - Khan Academy Reflecting and compressing functions - Khan Academy Identifying horizontal squash - Khan Academy
	6 4/18 – 4/22	• Holiday – 4/18 • 10.6 Operations of functions • Remediation/Review • Assessment • 11.1 Analyzing data displays	
	7 4/25 – 4/29	• Interims Issued – 4/26 • 11.2 Comparing data sets • 11.3 Interpreting the sets of data displays	
	8 5/2 – 5/6 5/2 – 5/27 - FSA/EOC Testing Window	• 11.4 Standard deviation • 11.5 Two-way frequency tables • Remediation	Two way frequency tables (8th grade standards) - Khan Academy Two-way frequency tables (practice) - Khan Academy

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9 5/9 – 5/13	• Review • Assessment • Course Standards Review	
10 5/16 – 5/20	• Course Standards Review	
11 5/23 – 5/27	• Course Standards Review	
12 5/30 – 6/2	• Memorial Day Holiday – 5/30 • Course Standards Review	

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