

**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 16 – Oct 15	1 8/16 – 8/20	<ul style="list-style-type: none"> <li>STEM project</li> <li>1.1 Operations on real numbers</li> <li>1.2 Solving linear equations</li> </ul>	<i>Unit: Irrational numbers - <a href="#">Khan Academy</a></i> Rational vs. irrational expressions - <a href="#">Khan Academy</a> Sum and product of 2 rational #'s is rational – <a href="#">Khan Academy</a> Produce of rational and irrational is irrational - <a href="#">Khan Academy</a> Sum of rational and irrational is irrational - <a href="#">Khan Academy</a> Sums and products of irrational numbers - <a href="#">Khan Academy</a> <i>Unit: Linear equations and graphs - <a href="#">Khan Academy</a></i> Variables, expressions and equations - <a href="#">Khan Academy</a>
	2 8/23 – 8/27	<ul style="list-style-type: none"> <li>1.3 Solving equations with variables on both sides</li> <li>1.4 Literal equations and formulas</li> <li>1.5 Solving inequalities in one variable</li> </ul>	<i>Unit: Solving equations - <a href="#">Khan Academy</a></i> Variables on Both Sides – <a href="#">Khan Academy</a> Intro to equations with variables on both sides - <a href="#">Khan Academy</a> Solving an equation for a variable - <a href="#">Khan Academy</a> <i>Unit: Solving inequalities - <a href="#">Khan Academy</a></i> Testing solutions to an inequality - <a href="#">Khan Academy</a> Plotting an inequality - <a href="#">Khan Academy</a> One step inequality - <a href="#">Khan Academy</a> Two step inequality - <a href="#">Khan Academy</a> Inequalities with variables on both sides - <a href="#">Khan Academy</a>
	3 8/30 – 9/3	<ul style="list-style-type: none"> <li>1.6 Compound inequalities</li> <li>1.7 Absolute value equations and inequalities</li> <li>Remediation</li> </ul>	Compound inequalities: OR - <a href="#">Khan Academy</a> Compound inequalities: AND - <a href="#">Khan Academy</a> <i>Unit: Absolute value and piecewise functions - <a href="#">Khan Academy</a></i> Graphing absolute value functions – <a href="#">Khan Academy</a>
	4 9/6 – 9/10	<ul style="list-style-type: none"> <li>Labor Day Holiday – 9/6</li> <li>Review</li> <li>Assessment</li> <li>2.1 Slope intercept form</li> </ul>	<i>Unit: Forms of linear equations - <a href="#">Khan Academy</a></i> Slope intercept form – <a href="#">Khan Academy</a>
	5 9/13 – 9/17	<ul style="list-style-type: none"> <li>Interims Issued – 9/14</li> <li>2.2 Point slope form</li> <li>2.3 Standard form</li> </ul>	Point slope form - <a href="#">Khan Academy</a> Standard form - <a href="#">Khan Academy</a>
	6 9/20 – 9/24	<ul style="list-style-type: none"> <li>Remediation</li> <li>Review</li> <li>Assessment</li> </ul>	
	7 9/27 – 10/1	<ul style="list-style-type: none"> <li>3.1 Relations and Functions</li> <li>3.2 Linear Functions</li> <li>3.3 Transforming linear functions</li> </ul>	<i>Unit: functions - <a href="#">Khan Academy</a></i> Relations and functions - <a href="#">Khan Academy</a> What is a function - <a href="#">Khan Academy</a> Recognizing linear functions - <a href="#">Khan Academy</a> Linear transformations - <a href="#">Khan Academy</a>

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# Algebra 1

2021-2022

	<p>8 10/4 – 10/8</p>	<ul style="list-style-type: none"> <li>● 3.4 Arithmetic sequences</li> <li>● 3.5 Scatter plots and lines of best fit</li> <li>● 3.6 Analyzing lines of fit</li> </ul>	<p><i>Unit: Sequences - <a href="#">Khan Academy</a></i>  <i>Intro to arithmetic sequences – <a href="#">Khan Academy</a></i>  <i>Unit: Data and modeling - <a href="#">Khan Academy</a></i>  <i>Scatter Plots and Lines of Fit - <a href="#">Khan Academy</a></i></p>
	<p>9 10/11 – 10/15</p>	<ul style="list-style-type: none"> <li>● Remediation</li> <li>● Review</li> <li>● PSAT/NMSQT – 10/13</li> <li>● Assessment</li> </ul>	

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2021-2022

	Week	Major Concepts / Topics	Possible Resources
Quarter 2 Oct 19 – Dec 21	1 10/19 – 10/22	<ul style="list-style-type: none"> <li>4.1 Solving systems by graphing</li> <li>4.2 Solving systems by substitution</li> </ul>	<i>Unit: Systems of equations - <a href="#">Khan Academy</a></i> Solving systems with graphing - <a href="#">Khan Academy</a> Solving Systems by Substitution – <a href="#">Khan Academy</a>
	2 10/25 – 10/29	<ul style="list-style-type: none"> <li>Report Cards – 10/26</li> <li>4.3 Solving systems by elimination</li> <li>4.4 Linear inequalities</li> </ul>	Solving Systems by Elimination – <a href="#">Khan Academy</a> Inequalities with variables on both sides - <a href="#">Khan Academy</a>
	3 11/1 – 11/5	<ul style="list-style-type: none"> <li>4.5 Systems of linear inequalities</li> <li>Remediation</li> <li>Review</li> </ul>	Systems of inequalities - <a href="#">Khan Academy</a>
	4 11/8 – 11/12	<ul style="list-style-type: none"> <li>Assessment</li> <li>6.1 Rational exponents and properties of exponents</li> <li>Veterans Day 11/11</li> </ul>	<i>Unit: Exponents and radicals - <a href="#">Khan Academy</a></i> Exponent properties: products - <a href="#">Khan Academy</a> Exponent properties: parentheses - <a href="#">Khan Academy</a> Exponent properties: quotients - <a href="#">Khan Academy</a> Negative exponents - <a href="#">Khan Academy</a> Multiplying and dividing powers - <a href="#">Khan Academy</a> Powers of products and quotients - <a href="#">Khan Academy</a> Powers of zero - <a href="#">Khan Academy</a>
	5 11/15 – 11/19	<ul style="list-style-type: none"> <li>Interims Issued – 11/16</li> <li>6.2 Exponential functions</li> <li>6.3 Exponential growth and decay</li> <li>Remediation</li> </ul>	Intro to exponential functions - <a href="#">Khan Academy</a> <i>Unit: Exponential growth and decay - <a href="#">Khan Academy</a></i> Graphing exponential growth and decay - <a href="#">Khan Academy</a>
	6 11/22 – 11/26	<ul style="list-style-type: none"> <li>Review</li> <li>Assessment</li> <li>Thanksgiving Holiday 11/24 – 11/26</li> </ul>	
	7 11/29 – 12/3	<ul style="list-style-type: none"> <li>6.4 Geometric sequences</li> <li>6.5 Transformations of exponential functions</li> <li></li> </ul>	<i>Unit: Sequences - <a href="#">Khan Academy</a></i> Intro to geometric sequences – <a href="#">Khan Academy</a> Transformations of exponential functions - <a href="#">Khan Academy</a>
	8 12/6 – 12/10	<ul style="list-style-type: none"> <li>Remediation</li> <li>Review</li> <li>Assessment</li> </ul>	
	9 12/13 – 12/17	<ul style="list-style-type: none"> <li>Midterms</li> </ul>	
	10 12/20 – 12/24	<ul style="list-style-type: none"> <li>Second Quarter/First Semester Ends – 12/21</li> <li>Winter Break – 12/22 – 1/4</li> </ul>	

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Quarter 3 Jan 6 – Mar 10	1 1/6 – 1/7	<ul style="list-style-type: none"> <li>7.1 Adding and subtracting polynomials</li> <li>7.2 Multiplying polynomials</li> <li>7.3 Multiplying special cases</li> </ul>	Unit: <i>Quadratics: Multiplying and factoring</i> - <a href="#">Khan Academy</a> Adding polynomials – <a href="#">Khan Academy</a> Intro to multiplying polynomials – <a href="#">Khan Academy</a> Special products $(x+a)(x-a)$ – <a href="#">Khan Academy</a> Squaring binomials - <a href="#">Khan Academy</a>
	2 1/10 – 1/14	<ul style="list-style-type: none"> <li>7.4 Factoring polynomials</li> <li>7.5 Factoring <math>x^2 + bx + c</math></li> <li>7.6 Factoring <math>ax^2 + bx + c</math></li> </ul>	Intro to factoring – <a href="#">Khan Academy</a>
	3 1/17 – 1/21	<ul style="list-style-type: none"> <li>Martin Luther King Jr. Holiday – 1/17</li> <li>7.7 Factoring special cases</li> <li>Report Cards – 1/19</li> </ul>	Difference of squares - <a href="#">Khan Academy</a> Perfect squares - <a href="#">Khan Academy</a> Special product forms - <a href="#">Khan Academy</a>
	4 1/24 – 1/28	<ul style="list-style-type: none"> <li>Remediation</li> <li>Review</li> </ul>	
	5 1/31 – 2/4	<ul style="list-style-type: none"> <li>Assessment</li> <li>8.1 Key features of quadratic functions</li> <li>8.2 Quadratic functions in vertex form</li> </ul>	Unit: <i>Quadratic functions and equations</i> - <a href="#">Khan Academy</a> Parabolas intro - <a href="#">Khan Academy</a> Forms and features of quadratics – <a href="#">Khan Academy</a> Intro to vertex form – <a href="#">Khan Academy</a>
	6 2/7 – 2/11	<ul style="list-style-type: none"> <li>Teacher Inservice – 2/7</li> <li>Interims Issued – 2/8</li> <li>8.3 Quadratic functions in standard form</li> <li>8.4 Modeling with quadratic functions</li> </ul>	Graphing quadratics: standard form - <a href="#">Khan Academy</a>
	7 2/14 – 2/18	<ul style="list-style-type: none"> <li>8.5 Linear exponential and quadratic models</li> <li>Remediation</li> </ul>	
	8 2/21 – 2/25	<ul style="list-style-type: none"> <li>Presidents Day Holiday – 2/21</li> <li>Review</li> <li>Assessment</li> <li>9.1 Solving quadratic equations</li> </ul>	
	9 2/28 – 3/4	<ul style="list-style-type: none"> <li>9.2 Solving quadratic equations by factoring</li> <li>9.3 Rewriting radical expressions</li> <li>9.4 Solving quadratic equations using square roots</li> </ul>	Solving quadratics by factoring - <a href="#">Khan Academy</a> Intro to rational exponents - <a href="#">Khan Academy</a> Rewriting roots as rational exponents - <a href="#">Khan Academy</a> Solving quadratics by taking square roots – <a href="#">Khan Academy</a>
	10 3/7 – 3/10	<ul style="list-style-type: none"> <li>9.5 Completing the square</li> <li>9.6 The quadratic formula and the discriminant</li> </ul>	Completing the square – <a href="#">Khan Academy</a> Quadratic formula - <a href="#">Khan Academy</a>

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			Discriminant (practice) - <a href="#">Khan Academy</a>	
		Week	Major Concepts / Topics	Possible Resources
Quarter 4 Mar 14 – June 2	1 3/14 – 3/18	<ul style="list-style-type: none"> <li>● <b>SPRING BREAK – NO SCHOOL</b></li> </ul>		
	2 3/21 – 3/25	<ul style="list-style-type: none"> <li>● Remediation</li> <li>● Review</li> <li>● Assessment</li> <li>● 5.1 Absolute value function</li> </ul>	Unit: Absolute value and piecewise functions - <a href="#">Khan Academy</a> Graphing absolute value – <a href="#">Khan Academy</a>	
	3 3/28 – 4/1	<ul style="list-style-type: none"> <li>● Report Cards – 3/29</li> <li>● 5.2 Piece-wise functions</li> <li>● 5.3 Step functions</li> <li>● 5.4 Transformations of piece-wise functions</li> </ul>	Intro to piece-wise functions – <a href="#">Khan Academy</a> Domain and range of step functions - <a href="#">Khan Academy</a> Shifting absolute value graphs - <a href="#">Khan Academy</a>	
	4 4/4 – 4/8	<ul style="list-style-type: none"> <li>● Remediation/Review</li> <li>● Assessment</li> <li>● 10.1 Square root function</li> <li>● 10.2 Cube root function</li> </ul>	Graphing square root and cube root functions - <a href="#">Khan Academy</a>	
	5 4/11 – 4/15	<ul style="list-style-type: none"> <li>● 10.3 Analyzing functions graphically</li> <li>● 10.4 Translations of functions</li> <li>● 10.5 Compressions and stretches of functions</li> <li>● Holiday – 4/15</li> </ul>	Identifying function transformations - <a href="#">Khan Academy</a> Reflecting and compressing functions - <a href="#">Khan Academy</a> Identifying horizontal squash - <a href="#">Khan Academy</a>	
	6 4/18 – 4/22	<ul style="list-style-type: none"> <li>● Holiday – 4/18</li> <li>● 10.6 Operations of functions</li> <li>● Remediation/Review</li> <li>● Assessment</li> <li>● 11.1 Analyzing data displays</li> </ul>		
	7 4/25 – 4/29	<ul style="list-style-type: none"> <li>● Interims Issued – 4/26</li> <li>● 11.2 Comparing data sets</li> <li>● 11.3 Interpreting the sets of data displays</li> </ul>		
	8 5/2 – 5/6 5/2 – 5/27 - FSA/EOC Testing Window	<ul style="list-style-type: none"> <li>● 11.4 Standard deviation</li> <li>● 11.5 Two-way frequency tables</li> <li>● Remediation</li> </ul>	Two way frequency tables (8th grade standards) - <a href="#">Khan Academy</a> Two-way frequency tables (practice) - <a href="#">Khan Academy</a>	

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	9 5/9 – 5/13	<ul style="list-style-type: none"> <li>• Review</li> <li>• Assessment</li> <li>• Course Standards Review</li> </ul>	
	10 5/16 – 5/20	<ul style="list-style-type: none"> <li>• Course Standards Review</li> </ul>	
	11 5/23 – 5/27	<ul style="list-style-type: none"> <li>• Course Standards Review</li> </ul>	
	12 5/30 – 6/2	<ul style="list-style-type: none"> <li>• Memorial Day Holiday – 5/30</li> <li>• Course Standards Review</li> </ul>	

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