

**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>1.1 Operations on real numbers</li> <li>1.2 Solving linear equations</li> <li>1.3 Solving equations with variables on both sides</li> <li>1.4 Literal equations and formulas</li> </ul>	<i>Unit: Irrational numbers</i> - <a href="#">Khan Academy</a> 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</i> - <a href="#">Khan Academy</a> Variables, expressions and equations - <a href="#">Khan Academy</a> <i>Unit: Solving equations</i> - <a href="#">Khan Academy</a> 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>
	2 8/23 – 8/27	<ul style="list-style-type: none"> <li>1.5 Solving inequalities in one variable</li> <li>1.6 Compound inequalities</li> <li>1.7 Absolute value equations and inequalities</li> <li>Remediation</li> <li>Review</li> </ul>	<i>Unit: Solving inequalities</i> - <a href="#">Khan Academy</a> 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> Compound inequalities: OR - <a href="#">Khan Academy</a> Compound inequalities: AND - <a href="#">Khan Academy</a> <i>Unit: Absolute value and piecewise functions</i> - <a href="#">Khan Academy</a> Graphing absolute value functions – <a href="#">Khan Academy</a>
	3 8/30 – 9/3	<ul style="list-style-type: none"> <li>Assessment</li> <li>2.1 Slope intercept form</li> </ul>	<i>Unit: Forms of linear equations</i> - <a href="#">Khan Academy</a> Slope intercept form – <a href="#">Khan Academy</a>
	4 9/6 – 9/10	<ul style="list-style-type: none"> <li>Labor Day Holiday – 9/6</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>
	5 9/13 – 9/17	<ul style="list-style-type: none"> <li>Interims Issued – 9/14</li> <li>Remediation</li> <li>Review</li> <li>Assessment</li> <li>3.1 Relations and Functions</li> </ul>	<i>Unit: functions</i> - <a href="#">Khan Academy</a> Relations and functions - <a href="#">Khan Academy</a> What is a function - <a href="#">Khan Academy</a>
	6 9/20 – 9/24	<ul style="list-style-type: none"> <li>3.2 Linear Functions</li> <li>3.3 Transforming linear functions</li> <li>3.4 Arithmetic sequences</li> <li>3.5 Scatter plots and lines of best fit</li> </ul>	Recognizing linear functions - <a href="#">Khan Academy</a> Linear transformations - <a href="#">Khan Academy</a> <i>Unit: Sequences</i> - <a href="#">Khan Academy</a> Intro to arithmetic sequences – <a href="#">Khan Academy</a> <i>Unit: Data and modeling</i> - <a href="#">Khan Academy</a>

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# Algebra 1 Honors

2021-2022

			Scatter Plots and Lines of Fit - <a href="#">Khan Academy</a>
	7 9/27 – 10/1	<ul style="list-style-type: none"> <li>• 3.6 Analyzing lines of fit</li> <li>• Remediation</li> <li>• Review</li> </ul>	
	8 10/4 – 10/8	<ul style="list-style-type: none"> <li>• Assessment</li> <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>
	9 10/11 – 10/15	<ul style="list-style-type: none"> <li>• 4.3 Solving systems by elimination</li> <li>• PSAT/NMSQT – 10/13</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>

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Quarter 2 Oct 19 – Dec 21	1 10/19 – 10/22	<ul style="list-style-type: none"> <li>4.5 Systems of linear inequalities</li> <li>Remediation</li> </ul>	Systems of inequalities - <a href="#">Khan Academy</a>
	2 10/25 – 10/29	<ul style="list-style-type: none"> <li>Report Cards – 10/26</li> <li>Review</li> <li>Assessment</li> <li>6.1 Rational exponents and properties of exponents</li> <li>6.2 Exponential functions</li> </ul>	Unit: <i>Exponents and radicals</i> - <a href="#">Khan Academy</a> 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> Intro to exponential functions - <a href="#">Khan Academy</a>
	3 11/1 – 11/5	<ul style="list-style-type: none"> <li>6.3 Exponential growth and decay</li> <li>6.4 Geometric sequences</li> </ul>	Unit: <i>Exponential growth and decay</i> - <a href="#">Khan Academy</a> Graphing exponential growth and decay - <a href="#">Khan Academy</a> Unit: <i>Sequences</i> - <a href="#">Khan Academy</a> Intro to geometric sequences – <a href="#">Khan Academy</a>
	4 11/8 – 11/12	<ul style="list-style-type: none"> <li>6.5 Transformations of exponential functions</li> <li>Veterans Day 11/11</li> <li>Remediation</li> </ul>	Transformations of exponential functions - <a href="#">Khan Academy</a>
	5 11/15 – 11/19	<ul style="list-style-type: none"> <li>Interims Issued – 11/16</li> <li>Review</li> <li>Assessment</li> <li>7.1 Adding and subtracting polynomials</li> <li>7.2 Multiplying polynomials</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>
	6 11/22 – 11/26	<ul style="list-style-type: none"> <li>7.3 Multiplying special cases</li> <li>Thanksgiving Holiday 11/24 – 11/26</li> </ul>	Special products $(x+a)(x-a)$ – <a href="#">Khan Academy</a> Squaring binomials - <a href="#">Khan Academy</a>
	7 11/29 – 12/3	<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>
	8 12/6 – 12/10	<ul style="list-style-type: none"> <li>7.7 Factoring special cases</li> <li>Remediation</li> <li>Review</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>
	9 12/13 – 12/17	<ul style="list-style-type: none"> <li>Assessment</li> <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>8.1 Key features of quadratic functions</li> <li>8.2 Quadratic functions in vertex form</li> </ul>	<i>Unit: Quadratic functions and equations - <a href="#">Khan Academy</a></i> 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>
	2 1/10 – 1/14	<ul style="list-style-type: none"> <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>
	3 1/17 – 1/21	<ul style="list-style-type: none"> <li>Martin Luther King Jr. Holiday – 1/17</li> <li>Report Cards – 1/19</li> <li>8.5 Linear exponential and quadratic models</li> <li>Remediation</li> </ul>	
	4 1/24 – 1/28	<ul style="list-style-type: none"> <li>Review</li> <li>Assessment</li> <li>9.1 Solving quadratic equations</li> <li>9.2 Solving quadratic equations by factoring</li> </ul>	Solving quadratics by factoring - <a href="#">Khan Academy</a>
	5 1/31 – 2/4	<ul style="list-style-type: none"> <li>9.3 Rewriting radical expressions</li> <li>9.4 Solving quadratic equations using square roots</li> <li>9.5 Completing the square</li> <li>9.6 The quadratic formula and the discriminant</li> </ul>	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> Completing the square – <a href="#">Khan Academy</a> Quadratic formula - <a href="#">Khan Academy</a> Discriminant (practice) - <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>9.7 Solving Systems of Linear and Quadratic Equations</li> <li>Remediation</li> <li>Review</li> <li>Assessment</li> </ul>	
	7 2/14 – 2/18	<ul style="list-style-type: none"> <li>5.1 Absolute value function</li> <li>5.2 Piece-wise functions</li> <li>5.3 Step functions</li> <li>5.4 Transformations of piece-wise functions</li> </ul>	<i>Unit: Absolute value and piecewise functions - <a href="#">Khan Academy</a></i> Graphing absolute value – <a href="#">Khan Academy</a> 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>

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2021-2022

	<p>8 2/21 – 2/25</p>	<ul style="list-style-type: none"> <li>• Presidents Day Holiday – 2/21</li> <li>• Remediation/Review</li> <li>• Assessment</li> <li>• 10.1 Square root function</li> <li>• 10.2 Cube root function</li> </ul>	<p>Graphing square root and cube root functions - <a href="#">Khan Academy</a></p>
	<p>9 2/28 – 3/4</p>	<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> </ul>	<p>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></p>
	<p>10 3/7 – 3/10</p>	<ul style="list-style-type: none"> <li>• 10.6 Operations of functions</li> <li>• 10.7 Inverse Operations</li> <li>• Remediation/Review</li> <li>• Assessment</li> </ul>	

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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>• 11.1 Analyzing data displays</li> <li>• 11.2 Comparing data sets</li> <li>• 11.3 Interpreting the sets of data displays</li> </ul>	
	3 3/28 – 4/1	<ul style="list-style-type: none"> <li>• Report Cards – 3/29</li> <li>• 11.4 Standard deviation</li> <li>• 11.5 Two-way frequency tables</li> </ul>	Two way frequency tables (8th grade standards) - <a href="#">Khan Academy</a> Two-way frequency tables (practice) - <a href="#">Khan Academy</a>
	4 4/4 – 4/8	<ul style="list-style-type: none"> <li>• 11.6 Data Distributions</li> <li>• 11.7 Normal Distributions</li> <li>• Remediation</li> </ul>	
	5 4/11 – 4/15	<ul style="list-style-type: none"> <li>• Review</li> <li>• Assessment</li> <li>• 12.1 Polynomial Identities</li> <li>• 12.2 Dividing Polynomials</li> <li>• Holiday – 4/15</li> </ul>	Polynomial Identities - <a href="#">Khan Academy</a> Dividing polynomials - <a href="#">Khan Academy</a>
	6 4/18 – 4/22	<ul style="list-style-type: none"> <li>• Holiday – 4/18</li> <li>• 12.3 Inverse Variation and the Reciprocal Functions</li> <li>• 12.4 Graphing Rational Functions</li> <li>• 12.5 Multiplying and Dividing Rational Expressions</li> </ul>	Inverse variation - <a href="#">Khan Academy</a> Graphing rational functions - <a href="#">Khan Academy</a> Multiplying and dividing rational expressions - <a href="#">Khan Academy</a>
	7 4/25 – 4/29	<ul style="list-style-type: none"> <li>• Interims Issued – 4/26</li> <li>• 12.6 Adding and Subtracting Rational Expressions</li> <li>• 12.7 Solving Rational Equations</li> <li>• 12.8 Solving Radical Equations</li> </ul>	Adding and subtracting rational expressions - <a href="#">Khan Academy</a> Intro to rational equations - <a href="#">Khan Academy</a> Intro to square root equations - <a href="#">Khan Academy</a>
	8 5/2 – 5/6 5/2 – 5/27 - FSA/EOC Testing Window	<ul style="list-style-type: none"> <li>• Remediation</li> <li>• Review</li> <li>• Assessment</li> <li>• Course Standards Review</li> </ul>	
	9	<ul style="list-style-type: none"> <li>• Course Standards Review</li> </ul>	

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	5/9 – 5/13		
	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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