

**Please Note:**

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**Publisher Resource:**

[CollegePrepAlgebra.com](http://CollegePrepAlgebra.com)

**Other Course Supplemental Resources:**

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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>Lesson 1.1 - Real Numbers</li> <li>Lesson 1.2 - Add &amp; Subtract Integers</li> <li>Lesson 1.3 - Multiplying &amp; Dividing Integers and Lesson</li> <li>Lesson 1.4 - Operations with Rational Numbers</li> </ul>	Adding numbers with different signs - <a href="#">Khan Academy</a> Multiplying and dividing negative numbers - <a href="#">Khan Academy</a>
	2 8/23 – 8/27	<ul style="list-style-type: none"> <li>Topic 20 - Real number operations</li> <li>Lesson 1.5 - Exponents and Properties of Real Numbers</li> <li>Topic 5 - Repeating Decimals</li> <li>Remediate/Review</li> <li>Assess</li> </ul>	Intro to exponents - <a href="#">Khan Academy</a> Convert fraction to repeating decimal - <a href="#">Khan Academy</a>
	3 8/30 – 9/3	<ul style="list-style-type: none"> <li>Lesson 2.1 - Writing and Evaluating Algebraic Expressions</li> <li>Lesson 2.2 - Simplifying Algebraic Expressions</li> <li>Lesson 2.3 - Algebra and Problem Solving</li> <li>Lesson 2.4 - Introduction to Equations</li> </ul>	Evaluating an expression with one variable - <a href="#">Khan Academy</a> Evaluating expressions with two variables - <a href="#">Khan Academy</a> Intro to combining like terms - <a href="#">Khan Academy</a> Variables, expressions and equations - <a href="#">Khan Academy</a>
	4 9/6 – 9/10	<ul style="list-style-type: none"> <li>Labor Day Holiday – 9/6</li> <li>Remediate/Review</li> <li>Assess</li> <li>Lesson 3.1 - Solving Linear Equations</li> </ul>	Why we do the same thing to both sides - <a href="#">Khan Academy</a>
	5 9/13 – 9/17	<ul style="list-style-type: none"> <li>Interims Issued – 9/14</li> <li>Lesson 3.2 - Equations that Reduce to Linear Form</li> <li>Lesson 3.3 - Problem Solving with Percents</li> </ul>	Meaning of percent - <a href="#">Khan Academy</a>
	6 9/20 – 9/24	<ul style="list-style-type: none"> <li>Lesson 3.5 - Geometric and Scientific Applications</li> <li>Lesson 3.6 - Linear Inequalities</li> </ul>	Solving and graphing linear inequalities - <a href="#">Khan Academy</a>
	7 9/27 – 10/1	<ul style="list-style-type: none"> <li>Lesson 3.7 - Absolute Value Equations and Inequalities</li> <li>Remediate/Review</li> <li>Assess</li> <li>Lesson 4.1 - Ordered Pairs and Graphs</li> </ul>	Intro to absolute value equations and graphs - <a href="#">Khan Academy</a> Intro to absolute value inequalities - <a href="#">Khan Academy</a>

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	8 10/4 – 10/8	<ul style="list-style-type: none"> <li>• Topic 10: Partitioning Segments</li> <li>• Lesson 4.2 - Graphs of Equations in Two variables</li> </ul>	Plotting a point (ordered pair) - <a href="#">Khan Academy</a> Dividing line segments - <a href="#">Khan Academy</a> Two-variable linear equations intro - <a href="#">Khan Academy</a>
	9 10/11 – 10/15	<ul style="list-style-type: none"> <li>• PSAT/NMSQT – 10/13</li> <li>• Lesson 4.3 - Relations, Functions, and Graphs</li> <li>• Topic 16 - Graphing Proportional Relationships</li> <li>• Lesson 4.4 - Slope and Graphs of Linear Equations</li> <li>• Topic 19 – The Distance Formula</li> </ul>	Relations and functions - <a href="#">Khan Academy</a> Graphing proportional relationships from an equation - <a href="#">Khan Academy</a> Graphing proportional relationships from a table - <a href="#">Khan Academy</a> Intro to slope - <a href="#">Khan Academy</a> Graphing a linear equation - <a href="#">Khan Academy</a>

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Quarter 2 Oct 18 – Dec 21	1 10/18 – 10/22	<ul style="list-style-type: none"> <li>Teacher Planning Day – 10/18</li> <li>Topic 9 - Step and Piecewise functions</li> <li>Lesson 4.5 - Equations of Lines</li> <li>Topic 11 - Scatterplots and Lines of Fit</li> </ul>	Distance formula - <a href="#">Khan Academy</a> Intro to piecewise functions - <a href="#">Khan Academy</a>
	2 10/25 – 10/29	<ul style="list-style-type: none"> <li>Report Cards – 10/26</li> <li>Lesson 4.6 - Graphs of linear Inequalities</li> <li>Remediate/Review</li> <li>Assess</li> </ul>	Line of best fit - <a href="#">Khan Academy</a> Intro to graphing two-variable inequalities - <a href="#">Khan Academy</a>
	3 11/1 – 11/5	<ul style="list-style-type: none"> <li>Lesson 5.1 - Integer Exponents, and Scientific Notation</li> <li>Lesson 5.2 - Adding and Subtracting Polynomials</li> </ul>	Intro to exponents - <a href="#">Khan Academy</a> Scientific notation - <a href="#">Khan Academy</a> Adding and subtracting polynomials - <a href="#">Khan Academy</a>
	4 11/8 – 11/12	<ul style="list-style-type: none"> <li>Veterans Day 11/11</li> <li>Lesson 5.3 - Multiplying Polynomials; Special Products</li> <li>Lesson 5.4 - Diving Polynomials and Synthetic Division</li> </ul>	
	5 11/15 – 11/19	<ul style="list-style-type: none"> <li>Interims Issued – 11/16</li> <li>Remediate/Review</li> <li>Assess</li> <li>Lesson 6.1 - Factoring Polynomials with Common Factors</li> </ul>	Multiplying monomials - <a href="#">Khan Academy</a> Multiplying monomials by polynomials - <a href="#">Khan Academy</a> Multiplying binomials - <a href="#">Khan Academy</a> Special products $(x+a)(x-a)$ - <a href="#">Khan Academy</a> Intro to polynomial synthetic division - <a href="#">Khan Academy</a>
	6 11/22 – 11/26	<ul style="list-style-type: none"> <li>Thanksgiving Holiday 11/24 – 11/26</li> </ul>	<i>Unit: Polynomial factorization</i> - <a href="#">Khan Academy</a> Factoring quadratics $(x+a)(x+b)$ - <a href="#">Khan Academy</a> Factoring quadratics: common factor and grouping - <a href="#">Khan Academy</a>
	7 11/29 – 12/3	<ul style="list-style-type: none"> <li>Lesson 6.2 - Factoring Trinomials</li> <li>Lesson 6.3 - More about Factoring Trinomials</li> <li></li> </ul>	Factoring trinomials - <a href="#">Khan Academy</a>

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	8 12/6 – 12/10	<ul style="list-style-type: none"> <li>• Lesson 6.4 – Factoring Polynomials with Special Forms</li> <li>• Polynomial Identities and Pythagorean Triples Review</li> <li>• Lesson 6.5 - Solving Polynomial Equations by Factoring</li> </ul>	Difference of squares - <a href="#">Khan Academy</a> Polynomial identities - <a href="#">Khan Academy</a> Solving quadratics by factoring - <a href="#">Khan Academy</a>
	9 12/13 – 12/17	<ul style="list-style-type: none"> <li>• Remediate/Review</li> <li>• Assess</li> <li>• Standards Review</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> <li>• Midterm</li> <li>• Standards Review</li> </ul>	

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Quarter 3 Jan 6 – Mar 10	1 1/5 – 1/7	<ul style="list-style-type: none"> <li>Teacher Planning Day – 1/5</li> <li>Lesson 7.1 Rational Expressions and Functions</li> </ul>	Intro to rational expression simplification - <a href="#">Khan Academy</a>
	2 1/10 – 1/14	<ul style="list-style-type: none"> <li>Lesson 7.2 - Multiplying and Dividing Rational Expressions</li> <li>Lesson 7.3 - Adding and Subtracting Rational Expressions</li> </ul>	Multiplying and dividing rational expressions: monomials - <a href="#">Khan Academy</a> Multiplying rational expressions - <a href="#">Khan Academy</a> Dividing rational expressions - <a href="#">Khan Academy</a> Adding and subtracting rational expressions: like denominators - <a href="#">Khan Academy</a> Intro to adding rational expressions with unlike denominators - <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>Lesson 7.4 - Complex Fractions</li> </ul>	Simplifying complex fractions - <a href="#">Khan Academy</a> Rational equations intro - <a href="#">Khan Academy</a>
	4 1/24 – 1/28	<ul style="list-style-type: none"> <li>Lesson 7.5 – Solving Rational Equations</li> <li>Topic 15 – Graphing Rational Function</li> </ul>	Graphing rational functions part 1 - <a href="#">Khan Academy</a> Graphing rational functions part 2 - <a href="#">Khan Academy</a> Graphing rational functions part 3 - <a href="#">Khan Academy</a> Graphing rational functions part 4 - <a href="#">Khan Academy</a>
	5 1/31 – 2/4	<ul style="list-style-type: none"> <li>Remediate/Review</li> <li>Assess</li> <li>Lesson 8.1 - Solving systems of Equations by Graphing and Substitution</li> </ul>	Solving systems of equations with graphing - <a href="#">Khan Academy</a> Systems of equations with substitution - <a href="#">Khan Academy</a>

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6 2/7 – 2/11	<ul style="list-style-type: none"> <li>• Teacher Inservice – 2/7</li> <li>• Interims Issued – 2/8</li> <li>• Lesson 8.2 - Solving Systems of Equations by Elimination</li> </ul>	Systems of equations with elimination - <a href="#">Khan Academy</a>
7 2/14 – 2/18	<ul style="list-style-type: none"> <li>• Lesson 8.6 – Systems of linear Inequalities</li> <li>• Remediate/Review</li> </ul>	Into to graphing 2-variable inequalities - <a href="#">Khan Academy</a>
8 2/21 – 2/25	<ul style="list-style-type: none"> <li>• Presidents Day Holiday – 2/21</li> <li>• Assess</li> <li>• Lesson 9.1 - Radicals and Rational Exponents</li> </ul>	Radical and rational exponents - <a href="#">Khan Academy</a> Simplifying square roots - <a href="#">Khan Academy</a>
9 2/28 – 3/4	<ul style="list-style-type: none"> <li>• Lesson 9.2 – Simplifying Radical Expressions</li> <li>• Topic 18 - Graphing Square and Cube Root Functions</li> <li>• Lesson 9.5 – Radical Equations and Applications</li> </ul>	Graphing square and cube root functions - <a href="#">Khan Academy</a>
10 3/7 – 3/11	<ul style="list-style-type: none"> <li>• Teacher Planning Day – 3/11</li> <li>• Remediate/Review</li> <li>• Assess</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>• Lesson 10.1 - Solving Quadratic Equations</li> <li>• Lesson 10.2 - Completing the Square</li> </ul>	Zero product property - <a href="#">Khan Academy</a> Solving quadratics by taking square roots - <a href="#">Khan Academy</a> Completing the square - <a href="#">Khan Academy</a>
	3 3/28 – 4/1	<ul style="list-style-type: none"> <li>• Report Cards – 3/29</li> <li>• Lesson 10.3 – Quadratic Formula Lesson</li> <li>• Lesson 10.4 – Graphs of Quadratic Functions</li> </ul>	Quadratic formula - <a href="#">Khan Academy</a> Interpret a quadratic graph - <a href="#">Khan Academy</a>
	4 4/4 – 4/8	<ul style="list-style-type: none"> <li>• Transformations of Quadratics</li> <li>• Topic 8 – Symmetry and Behavior of Graphs</li> </ul>	Intro to parabola transformations - <a href="#">Khan Academy</a> Vertex and axis of symmetry of parabola - <a href="#">Khan Academy</a>
	5 4/11 – 4/15	<ul style="list-style-type: none"> <li>• Holiday – 4/15</li> <li>• Average Rate of Change</li> <li>• Lesson 10.5 – Applications of Quadratic Equations</li> </ul>	Introduction to average rate of change - <a href="#">Khan Academy</a> Quadratic word problem: ball - <a href="#">Khan Academy</a>
	6 4/18 – 4/22	<ul style="list-style-type: none"> <li>• Holiday – 4/18</li> <li>• Remediate/Review</li> <li>• Assess</li> <li>• Lesson 11.1 - Exponential Functions</li> </ul>	Intro to exponential functions - <a href="#">Khan Academy</a>
	7 4/25 – 4/29	<ul style="list-style-type: none"> <li>• Interims Issued – 4/26</li> <li>• Lesson 11.6 - Applications</li> <li>• Lesson 11.2 – Composite Functions</li> </ul>	Intro to composing functions - <a href="#">Khan Academy</a>
	8 5/2 – 5/6	<ul style="list-style-type: none"> <li>• 12.4 Solving Nonlinear Systems of Equations</li> <li>• Topic 21 - Two-Way Tables</li> </ul>	Nonlinear equation graphs - <a href="#">Khan Academy</a>

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			Two way relative frequency tables - <a href="#">Khan Academy</a>
	9 5/9 – 5/13	<ul style="list-style-type: none"> <li>Remediate/Review</li> <li>Assess</li> </ul>	
	10 5/16 – 5/20	<ul style="list-style-type: none"> <li>Standards Review</li> </ul>	
	11 5/23 – 5/27	<ul style="list-style-type: none"> <li>Standards Review</li> </ul>	
	12 5/30 – 6/2	<ul style="list-style-type: none"> <li>Memorial Day Holiday – 5/30</li> <li>Standards Review</li> </ul>	

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