

**Please Note:**

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**Publisher Resource:**

[Math Nation](#)

**Other Course Supplemental Resources:**

[Khan Academy - Algebra 1](#)

[Khan Academy - Geometry](#)

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	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 12 – Oct 11	1 8/12 – 8/16	<ul style="list-style-type: none"> <li>• Unit 1 – Expressions, Equations and Inequalities                             <ul style="list-style-type: none"> <li>○ Using Expressions to Represent Real-World Situations</li> <li>○ Understanding Polynomial Expressions</li> </ul> </li> <li>• 2-1 Equations: True or False?</li> <li>• 2-2 Identifying Properties When Solving Equations</li> </ul>	
	2 8/19 – 8/23	<ul style="list-style-type: none"> <li>• 2-3 Solving Equations</li> <li>• 2-5 Solving Inequalities - Part 1</li> <li>• 2-6 Solving Inequalities - Part 2</li> <li>• 2-7 Solving Compound Inequalities</li> <li>• 2-8 Rearranging Formulas</li> </ul>	Solving Inequalities – <a href="#">Khan Academy</a> Solving Equations – <a href="#">Khan Academy</a> Compound Inequalities – <a href="#">Khan Academy</a>
	3 8/26 – 8/30	<ul style="list-style-type: none"> <li>• 2-9 Solution Sets to Equations with Two Variables</li> <li>• Activity, Review, Unit 1 Test</li> </ul>	Evaluating Expressions with Two Variables - <a href="#">Khan Academy</a>
	4 9/3 – 9/6	<ul style="list-style-type: none"> <li>• Labor Day Holiday – 9/2</li> <li>• Unit 2 - Introduction to Functions</li> <li>• 3-1 Input and Output Values</li> <li>• 3-2 Representing, Naming, and Evaluating Functions</li> <li>• 3-3 Adding and Subtracting Functions</li> <li>• 3-4 Multiplying Functions</li> </ul>	Functions – <a href="#">Khan Academy</a> Representing Functions - <a href="#">Khan Academy</a>
	5 9/9 – 9/13	<ul style="list-style-type: none"> <li>• 3-5 Closure Property</li> <li>• 3-7 Key Features of Graphs of Functions – Part 1</li> <li>• 3-8 Key Features of Graphs of Functions – Part 2</li> <li>• 3-9 Average Rate of Change Over an Interval</li> <li>• Activity</li> </ul>	Average Rate of Change - <a href="#">Khan Academy</a>
	6 9/16 – 9/20	<ul style="list-style-type: none"> <li>• Activity, Review, Unit 2 Test</li> <li>• Unit 3 - Introduction to Functions</li> <li>• 4-2 Rate of Change of Linear Functions</li> <li>• 4-3 Interpreting Rate of Change and <math>y</math>-Intercept in a Real-World Context - Part 1</li> </ul>	Introduction to Functions - <a href="#">Khan Academy</a>
	7 9/23 – 9/27	<ul style="list-style-type: none"> <li>• 4-4 Interpreting Rate of Change and <math>y</math>-Intercept in a Real-World Context - Part 2</li> <li>• 4-5 Introduction to Systems of Equations</li> </ul>	Rate of Change - <a href="#">Kahn Academy</a> Systems of Equations - <a href="#">Khan Academy</a>

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		<ul style="list-style-type: none"> <li>• 4-6 Finding Solution Sets to Systems of Equations Using Substitution and Graphing</li> <li>• 4-7 Using Equivalent Systems of Equations</li> <li>• 4-8 Finding Solution Sets to Systems of Equations Using Elimination</li> </ul>	
	8 9/30 – 10/4	<ul style="list-style-type: none"> <li>• 4-9 Solution Sets to Inequalities with Two Variables</li> <li>• 4-10 Finding Solution Sets to Systems of Linear Inequalities</li> <li>• Activity, Review,</li> </ul>	Solutions to Two Variable Inequalities - <a href="#">Khan Academy</a>
	9 10/7 – 10/11	<ul style="list-style-type: none"> <li>• Unit 3 Test</li> <li>• Unit 4 – Quadratic Equations and Functions – Part 1</li> <li>• 5-1 Real-World Examples of Quadratic Functions</li> <li>• 5-3 Solving Quadratic Equations by Factoring</li> <li>• 5-7 Solving Quadratic Equations by Completing the Square</li> <li>• 5-9 Solving Quadratic Equations Using the Quadratic Formula</li> </ul>	Solving Quadratic Equations by Factoring – <a href="#">Khan Academy</a>

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Quarter 2 Oct 15 – Dec 20	1 10/15 – 10/18	<ul style="list-style-type: none"> <li>• 5-10 Quadratic Functions in Action</li> <li>• Activity, Review,</li> </ul>	
	2 10/21 – 10/25	<ul style="list-style-type: none"> <li>• Unit 4 Test</li> <li>• Unit 5 – Quadratic Equations and Functions – Part 2</li> <li>• 6-1 Observations from a Graph of a Quadratic Function</li> <li>• 6-2 Nature of the Zeros of Quadratic Equations and Functions</li> <li>• 6-4 Graphing Quadratic Functions Using the Vertex and Intercepts</li> <li>• 6-6 Graphing Quadratic Functions Using Vertex Form - Part 2</li> </ul>	Quadratics - <a href="#">Khan Academy</a>
	3 10/28 – 11/1	<ul style="list-style-type: none"> <li>• Activity, Review, Unit 5 Test</li> <li>• Unit 6 - Exponential Functions</li> <li>• 7-2 Exponential Functions</li> </ul>	Exponential Functions - <a href="#">Khan Academy</a>
	4 11/4 – 11/8	<ul style="list-style-type: none"> <li>• 7-3 Graphs of Exponential Functions - Part 1</li> <li>• 7-5 Growth and Decay Rates of Exponential Functions</li> <li>• Activity, Review,</li> </ul>	Graphs of Exponential Functions - <a href="#">Khan Academy</a> Growth and Decay - <a href="#">Khan Academy</a>
	5 11/12 – 11/15	<ul style="list-style-type: none"> <li>• Veterans Day 9/11</li> <li>• Unit 6 Test</li> <li>• Unit 7 - Summary of Functions</li> <li>• 8-1 Comparing Linear, Quadratic, and Exponential Functions - Part 1</li> <li>• 8-2 Comparing Linear, Quadratic, and Exponential Functions - Part 2</li> <li>• 8-5 Modeling with Functions</li> </ul>	Summary of Functions - <a href="#">Khan Academy</a>
	6 11/18 – 11/22	<ul style="list-style-type: none"> <li>• 8-10 Finding Zeros of Polynomial Functions of Higher Degree</li> <li>• 8-12 Graphing Polynomial Functions of Higher Degree</li> <li>• Activity,</li> </ul>	Zeros in Polynomials - <a href="#">Khan Academy</a>
	7 11/25 – 11/26	<ul style="list-style-type: none"> <li>• Review, Unit 7 Test</li> <li>• Thanksgiving Holiday 11/27 - 11/29</li> </ul>	
	8 12/2 – 12/6	<ul style="list-style-type: none"> <li>• Unit 8 - One-Variable Statistics</li> <li>• 9-1 Dot Plots</li> <li>• 9-2 Histograms</li> <li>• 9-3 Box Plots - Part 1</li> </ul>	Dot Plots and Histograms - <a href="#">Khan Academy</a>

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		<ul style="list-style-type: none"> <li>• 9-4 Box Plots - Part 2</li> <li>• 9-5 Measures of Center and Shapes of Distributions</li> </ul>	
	9 12/9 – 12/13	<ul style="list-style-type: none"> <li>• 9-6 Measures of Spread - Part 1</li> <li>• 9-7 Measures of Spread - Part 2</li> <li>• 9-8 The Empirical Rule</li> <li>• 9-9 Outliers in Data Sets</li> <li>• Activity,</li> </ul>	The Emperical Rule - <a href="#">Khan Academy</a>
	10 12/16 – 12/20	<ul style="list-style-type: none"> <li>• Activity, Review, Unit 8 Test</li> <li>• Exams</li> </ul>	

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Quarter 3 Jan 6 – Mar 12	1 1/6– 1/10	<ul style="list-style-type: none"> <li>• Unit G1 - Introduction to Geometry                             <ul style="list-style-type: none"> <li>○ Basics of Geometry – Part 1</li> <li>○ Basics of Geometry – Part 2</li> </ul> </li> <li>• Activity</li> <li>• 1-11 Basic Constructions – Part 1</li> <li>• 1-12 Basic Constructions – Part 2</li> </ul>	Basics of Geometry - <a href="#">Khan Academy</a>
	2 1/13 – 1/17	<ul style="list-style-type: none"> <li>• 1-13 Constructing Perpendicular Bisectors</li> <li>• Activity, Review, Unit G1 Test</li> <li>• Unit G2 – Angles</li> <li>• 2-1 Introductions to Angles – part 1</li> </ul>	Introduction to angles - <a href="#">Khan Academy</a> Angle Bisectors - <a href="#">Khan Academy</a>
	3 1/21 – 1/24	<ul style="list-style-type: none"> <li>• Martin Luther King Jr. Holiday 1/20</li> <li>• 2-2 Introductions to Angles – part 2</li> <li>• Activity</li> <li>• 2-10 Copying Angles and Constructing Angle Bisectors</li> <li>• Activity,</li> </ul>	Angle Bisectors - <a href="#">Khan Academy</a>
	4 1/27 – 1/30	<ul style="list-style-type: none"> <li>• Review, Unit G1 Test</li> <li>• Unit 9 - AN Boot Camp and Radical and Rational Equations</li> <li>• Boot Camp/Test Yourself</li> <li>• Teacher Inservice 1/31</li> </ul>	
	5 2/3 – 2/7	<ul style="list-style-type: none"> <li>• Boot Camp/Test Yourself</li> </ul>	
	6 2/10 – 2/14	<ul style="list-style-type: none"> <li>• Boot Camp/Test Yourself</li> </ul>	
	7 2/17 – 2/21	<ul style="list-style-type: none"> <li>• Presidents Day Holiday 2/17</li> <li>• Boot Camp/Test Yourself</li> </ul>	
	8 2/24 – 2/28	<ul style="list-style-type: none"> <li>• <b>EOC – Algebra 1 Testing Window Opens</b></li> <li>• Section 2: Honors Topic 1: Solving Power Equations</li> <li>• Activity</li> </ul>	

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		<ul style="list-style-type: none"> <li>• Section 9: Honors Topic 1: Normal Distribution</li> <li>• Activity</li> <li>• Section 2: Honors Topic 1: Solving Power Equations</li> </ul>	
	9 $3/2 - 3/6$	<ul style="list-style-type: none"> <li>• Unit G3 – Rigid Transformations and Symmetry</li> <li>• 3-1 Introduction to Transformations</li> <li>• 3-1 Examining and Using Transformations</li> <li>• Activity</li> <li>• 3-4 Examining and Using Reflections</li> <li>• 3-4 Examining and Using Rotations</li> </ul>	Transformations Introduction - <a href="#">Khan Academy</a> Rotations - <a href="#">Khan Academy</a> Reflections - <a href="#">Khan Academy</a>
	10 $3/9 - 3/12$	<ul style="list-style-type: none"> <li>• Activity</li> <li>• 3-10 Symmetries of Regular Polygons</li> <li>• Activity, Review, Unit G3 Test</li> </ul>	Symmetries of Regular Polygons - <a href="#">Khan Academy</a>

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Quarter 4 Mar 23 – May 27	1 3/16 – 3/20	<ul style="list-style-type: none"> <li>• <b>SPRING BREAK – NO SCHOOL</b></li> </ul>	
	2 3/23 – 3/27	<ul style="list-style-type: none"> <li>• Unit G4 - Non-Rigid Transformations, Congruence, and Similarity</li> <li>• 4-6 Congruence of Polygons</li> <li>• 4-7 Similarity of Polygons</li> <li>• Activity</li> <li>• 5-4 Triangle Congruence – SSS and SAS – Part 1</li> <li>• 5-6 Triangle Congruence – ASA and AAS – Part 1</li> </ul>	Congruence of Polygons - <a href="#">Khan Academy</a> Triangle Congruence - <a href="#">Khan Academy</a>
	3 3/30 – 4/3	<ul style="list-style-type: none"> <li>• Activity</li> <li>• 5-8 Base Angle of Isosceles Triangles</li> <li>• 5-10 Using Triangle Congruency to Find Missing Variables</li> <li>• Activity, Review,</li> </ul>	Base Angles of Isosceles Triangles - <a href="#">Khan Academy</a>
	4 4/6 – 4/9	<ul style="list-style-type: none"> <li>• Unit G4 Test</li> <li>• Unit G5 – Triangles</li> <li>• 6-1 Triangle Similarity – Part 1</li> <li>• 6-2 Triangle Similarity – Part 2</li> <li>• Activity</li> <li>• Holiday 4/10</li> </ul>	Triangle Similarity - <a href="#">Khan Academy</a>
	5 4/14 – 4/17	<ul style="list-style-type: none"> <li>• Holiday 4/13</li> <li>• Unit G6 - Right Triangles and Trigonometry</li> <li>• 7-1 The Pythagorean Theorem</li> <li>• 7-6 Right Triangles Similarity – Part 1</li> <li>• 7-7 Right Triangles Similarity – Part 2</li> <li>• Activity</li> </ul>	Triangles and Similarity - <a href="#">Khan Academy</a> Pythagorean Theorem - <a href="#">Khan Academy</a>
	6 4/20 – 4/24	<ul style="list-style-type: none"> <li>• Review, Unit G6 Test</li> <li>• Unit G7 – Circles</li> <li>• 10-4 Constructing Inscribed Polygons in a Circle</li> <li>• 10-9 Constructing Inscribed and Circumscribed Circles of Triangles</li> </ul>	Constructing Inscribed Shapes - <a href="#">Khan Academy</a>

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		<ul style="list-style-type: none"> <li>• Activity</li> </ul>	
	7 4/27 – 5/1	<ul style="list-style-type: none"> <li>• Unit G8 - Three Dimensional Geometry</li> <li>• 11-4 Volume of Prisms and Cylinders</li> <li>• 11-6 Volume of Pyramids and Cones</li> <li>• 11-8 Spheres</li> <li>• Activity</li> <li>• 11-10 Geometric Design</li> </ul>	Volume of Cylinders and Cones - <a href="#">Khan Academy</a> Volume of Prisms - <a href="#">Khan Academy</a> Spheres - <a href="#">Khan Academy</a>
	8 5/4 – 5/8	<ul style="list-style-type: none"> <li>• 11-11 Volume in Real World Contexts</li> <li>• Activity</li> <li>• 11-12 Density</li> <li>• 11-14 Cross Sections and Plane Rotations</li> <li>• Activity,</li> </ul>	Density - <a href="#">Khan Academy</a> Cross Section and Plane Rotations - <a href="#">Khan Academy</a>
	9 5/11 – 5/15	<ul style="list-style-type: none"> <li>• Review, Unit G8 Test</li> <li>• Standards Review</li> </ul>	
	10 5/18 – 5/22	<ul style="list-style-type: none"> <li>• Standards Review</li> </ul>	
	11 5/25 – 5/27	<ul style="list-style-type: none"> <li>• Standards Review</li> </ul>	

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