

**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](#) (8<sup>th</sup> Grade – Pre-Algebra; does not support Internet Explorer)

[Illustrative Mathematics](#) (8<sup>th</sup> Grade; does not support Internet Explorer)

[Math Nation](#) (Clever – use your active directory; does not support Internet Explorer)

[FSA Portal](#)

[Grade 8 Mathematics Test Item Specifications](#)

[Grade 8 FSA Mathematics 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 Rational Numbers as Decimals (8.NS.1.1)</li> <li>1-2 Understand Rational Numbers (8.NS.1.1)</li> </ul>	Converting a fraction to a repeating decimal - <a href="#">Khan Academy</a> Converting repeating decimals to fractions - <a href="#">Khan Academy</a>
	2 8/23 – 8/27	<ul style="list-style-type: none"> <li>1-3 Compare and Order Real Numbers (8.NS.1.2)</li> <li>1-4 Evaluate Square Roots and Cube Roots (8.EE.1.2)</li> </ul>	Comparing rational numbers - <a href="#">Khan Academy</a> Ordering rational numbers practice - <a href="#">Khan Academy</a>
	3 8/30 – 9/3	<ul style="list-style-type: none"> <li>1-5 Solve Equations Using Square Roots and Cube Roots (8.EE.1.2)</li> <li>1-6 Use Properties of Integer Exponents (8.EE.1.2)</li> </ul>	Intro to square roots - <a href="#">Khan Academy</a> Intro to cube roots - <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>
	4 9/6 – 9/10	<ul style="list-style-type: none"> <li>Labor Day Holiday – 9/6</li> <li>1-7 More Properties of Integer Exponents (8.EE.1.1)</li> <li>1-8 Use Powers of 10 to Estimate Quantities (8.EE.1.3)</li> </ul>	Multiplying multiples of powers of 10 - <a href="#">Khan Academy</a> Approximating with powers of 10 - <a href="#">Khan Academy</a>
	5 9/13 – 9/17	<ul style="list-style-type: none"> <li>Interims Issued – 9/14</li> <li>1-9 Understand Scientific Notation (8.EE.1.4)</li> <li>1-10 Operations with Numbers in Scientific Notation (8.EE.1.4)</li> </ul>	Scientific notation - <a href="#">Khan Academy</a> Scientific notation part 2 - <a href="#">Khan Academy</a>
	6 9/20 – 9/24	<ul style="list-style-type: none"> <li>Remediate/Review</li> <li>Assess</li> <li>3-1 Combine Like Terms to Solve Equations (8.EE.3.7b)</li> </ul>	Intro to equations with variables on both sides - <a href="#">Khan Academy</a>

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	7 9/27 – 10/1	<ul style="list-style-type: none"> <li>• 3-2 Solve Equations with Variables on Both Sides (8.EE.3.7b)</li> <li>• 3-3 Solve Multistep Equations (8.EE.3.7b)</li> </ul>	<p>Equations with variables on both sides - <a href="#">Khan Academy</a></p> <p>Equations with variables on both sides: fractions - <a href="#">Khan Academy</a></p> <p>Equations with parentheses - <a href="#">Khan Academy</a></p>
	8 10/4 – 10/8	<ul style="list-style-type: none"> <li>• 3-4 Equations with No Solutions or Infinitely Many Solutions (8.EE.3.7a)</li> <li>• 3-5 Compare Proportional Relationships (8.EE.2.5)</li> </ul>	<p>Number of solutions to equations - <a href="#">Khan Academy</a></p> <p>Creating an equation with no solutions - <a href="#">Khan Academy</a></p> <p>Creating an equation with infinitely many solutions - <a href="#">Khan Academy</a></p>
	9 10/11 – 10/15	<ul style="list-style-type: none"> <li>• PSAT/NMSQT – 10/13</li> <li>• 3-6 Connect Proportional Relationships and Slope (8.EE.2.6)</li> <li>• 3-7 Analyze Linear Equations: <math>y = mx</math> (8.EE.2.6)</li> </ul>	<p>Intro to slope - <a href="#">Khan Academy</a></p> <p>Graphing proportional relationships - <a href="#">Khan Academy</a></p>

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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>3-8 Understand the y-intercept of a line (8.EE.2.6)</li> </ul>	Intro to slope-intercept form - <a href="#">Khan Academy</a>
	2 10/25 – 10/29	<ul style="list-style-type: none"> <li>Report Cards – 10/26</li> <li>3-9 Analyze Linear Equations: <math>y = mx + b</math> (8.EE.2.6)</li> <li>Remediate/Review</li> </ul>	Graph from slope-intercept form - <a href="#">Khan Academy</a> Slope-intercept equation from graph - <a href="#">Khan Academy</a> Writing equation from slope and point - <a href="#">Khan Academy</a>
	3 11/1 – 11/5	<ul style="list-style-type: none"> <li>Assess</li> <li>4-1 Understand Relations and Functions (8.F.1.1)</li> </ul>	Relations and Functions - <a href="#">Khan Academy</a>
	4 11/8 – 11/12	<ul style="list-style-type: none"> <li>Veterans Day 11/11</li> <li>4-2 Connect Representations of Functions (8.F.1.1)</li> </ul>	What is a function - <a href="#">Khan Academy</a>
	5 11/15 – 11/19	<ul style="list-style-type: none"> <li>Interims Issued – 11/16</li> <li>4-3 Compare Linear and Nonlinear Functions (8.F.1.3, 8.F.1.2)</li> <li>4-4 Construct Functions to Model Linear Relationships (8.F.2.4, 8.F.1.2)</li> </ul>	Evaluate functions - <a href="#">Khan Academy</a> Evaluate functions from their Graphs (practice) - <a href="#">Khan Academy</a> Function rules from equations (practice) - <a href="#">Khan Academy</a> Linear and nonlinear functions - <a href="#">Khan Academy</a> Modeling with linear equations - <a href="#">Khan Academy</a>
	6 11/22 – 11/26	<ul style="list-style-type: none"> <li>Thanksgiving Holiday 11/24 – 11/26</li> <li>4-5 Intervals of Increase and Decrease (8.F.2.5)</li> </ul>	Increase/decrease intervals - <a href="#">Khan Academy</a> Recognizing functions from verbal descriptions - <a href="#">Khan Academy</a>
	7 11/29 – 12/3	<ul style="list-style-type: none"> <li>4-6 Sketch Functions from Verbal Descriptions (8.F.2.5)</li> <li>Remediate/Review</li> <li>Assess</li> </ul>	
	8 12/6 – 12/10	<ul style="list-style-type: none"> <li>Assess</li> <li>5-1 Construct and Interpret Scatter Plots (8.SP.1.1)</li> <li>5-2 Analyze Linear Associations (8.SP.1.2, 8.F.1.3, 8.F.2.4)</li> </ul>	Constructing scatter plots - <a href="#">Khan Academy</a> Example of direction in scatterplots - <a href="#">Khan Academy</a>

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			Analyze positive and negative linear associations from scatter plots - (practice) <a href="#">Khan Academy</a>
9 12/13 – 12/17	<ul style="list-style-type: none"> <li>• 5-3 Use Linear Models to Make Predications (8.SP.1.3, 8.F.1.3, 8.F.2.4)</li> <li>• 5-4 Interpret Two-Way Frequency Tables (8.SP.1.4)</li> </ul>		Estimating line of best fit - <a href="#">Khan Academy</a> Interpreting a trend line - <a href="#">Khan Academy</a> Interpreting Two-Way Tables - <a href="#">Khan Academy</a>
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>• Semester 1 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>5-5 Interpret Two-Way Relative Frequency Tables (8.SP.1.4)</li> <li>Remediate/Review</li> </ul>	Interpreting Two-Way Tables - <a href="#">Khan Academy</a>
	2 1/10 – 1/14	<ul style="list-style-type: none"> <li>Assess</li> <li>7-1 Analyze Translations (8.G.1.1a, 8.G.1.1b, 8.G.1.1c, 8.G.1.3)</li> <li>7-2 Analyze Reflections (8.G.1.1a, 8.G.1.1b, 8.G.1.1c, 8.G.1.3)</li> </ul>	Analyzing translations - <a href="#">Khan Academy</a> Translating shapes - <a href="#">Khan Academy</a> Reflecting points - <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>7-3 Analyze Rotations (8.G.1.1a, 8.G.1.1b, 8.G.1.1c, 8.G.1.3)</li> <li>7-4 Compose Transformations (8.G.1.1a, 8.G.1.1b, 8.G.1.1c, 8.G.1.3)</li> </ul>	Determining rotations - <a href="#">Khan Academy</a> Rotating points - <a href="#">Khan Academy</a> Determining reflections - <a href="#">Khan Academy</a> Determining translations - <a href="#">Khan Academy</a>
	4 1/24 – 1/28	<ul style="list-style-type: none"> <li>7-5 Understand Congruent Figures (8.G.1.2, 8.G.1.3)</li> <li>7-6 Describe Dilations (8.G.1.3, 8.G.1.4)</li> </ul>	Understand Congruent Figures - <a href="#">Khan Academy</a> Dilations: scale factor - <a href="#">Khan Academy</a>
	5 1/31 – 2/4	<ul style="list-style-type: none"> <li>7-7 Understand Similar Figures (8.G.1.3, 8.G.1.4)</li> <li>7-8 Angles, Lines, and Transversals (8.G.1.5)</li> </ul>	Similar shapes and transformation - <a href="#">Khan Academy</a> Side lengths after dilation - <a href="#">Khan Academy</a> Angles, parallel lines, and transversals - <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>7-9 Interior and Exterior Angles of Triangles (8.G.1.5)</li> </ul>	Angles in a triangle - <a href="#">Khan Academy</a> Triangle exterior angles - <a href="#">Khan Academy</a> Intro to triangle similarity - <a href="#">Khan Academy</a>
	7 2/14 – 2/18	<ul style="list-style-type: none"> <li>7-10 Angle-Angle Triangle Similarity (8.G.1.5)</li> <li>Remediate/Review</li> <li>Assess</li> </ul>	

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	8 2/21 – 2/25	<ul style="list-style-type: none"> <li>• Presidents Day Holiday – 2/21</li> <li>• Assess</li> <li>• 8-1 Understand Pythagorean Theorem (8.G.2.6, 8.G.2.7)</li> </ul>	
	9 2/28 – 3/4	<ul style="list-style-type: none"> <li>• 8-2 Understand the Converse of the Pythagorean Theorem (8.G.2.6, 8.G.2.7)</li> <li>• 8-3 Apply the Pythagorean Theorem to Solve Problems (8.G.2.7)</li> </ul>	Intro to the Pythagorean theorem - <a href="#">Khan Academy</a>
	10 3/7 – 3/11	<ul style="list-style-type: none"> <li>• Teacher Planning Day – 3/11</li> <li>• 8-4 Find Distance in the Coordinate Plane (8.G.2.8)</li> <li>• Remediate/Review</li> </ul>	Pythagorean theorem with isosceles triangle - <a href="#">Khan Academy</a> Pythagorean theorem to find area - <a href="#">Khan Academy</a> Finding distance with the Pythagorean theorem - <a href="#">Khan Academy</a>

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Quarter 4 Mar 14 – May 31	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>• Assess</li> <li>• 10-1 Find Surface Area of Three-Dimensional Figures (8.G.3.9)</li> </ul>	Surface area word problem - <a href="#">Khan Academy</a> Cylinder volume and surface area - <a href="#">Khan Academy</a>
	3 3/28 – 4/1	<ul style="list-style-type: none"> <li>• Report Cards – 3/29</li> <li>• 10-2 Find Volume of Cylinders (8.G.3.9)</li> <li>• 10-3 Find Volume of Cones (8.G.3.9)</li> </ul>	Volume of a cone - <a href="#">Khan Academy</a> Volume of a sphere - <a href="#">Khan Academy</a>
	4 4/4 – 4/8	<ul style="list-style-type: none"> <li>• 10-4 Find Volume of Spheres (8.G.3.9)</li> <li>• Remediate/Review</li> </ul>	
	5 4/11 – 4/15	<ul style="list-style-type: none"> <li>• Holiday – 4/15</li> <li>• Assess</li> <li>• 6-1 Estimate Solutions by Inspection (8.EE.3.8b, 8.EE.3.8c)</li> </ul>	Systems of equations part 1 - <a href="#">Khan Academy</a> Systems of equations part 2 - <a href="#">Khan Academy</a> Testing a solution to a system - <a href="#">Khan Academy</a> Systems of equations with graphing - <a href="#">Khan Academy</a>
	6 4/18 – 4/22	<ul style="list-style-type: none"> <li>• Holiday – 4/18</li> <li>• 6-2 Solve Systems by Graphing (8.EE.3.8a, 8.EE.3.8c)</li> <li>• 6-3 Solve Systems by Substitution (8.EE.3.8b, 8.EE.3.8c)</li> </ul>	Systems of equations with substitution - <a href="#">Khan Academy</a> System of equation with elimination part 1 - <a href="#">Khan Academy</a> Systems of equations with elimination part 2 - <a href="#">Khan Academy</a>

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			Number of solutions to a system - <a href="#">Khan Academy</a>
7 4/25 – 4/29	<ul style="list-style-type: none"> <li>• Interims Issued – 4/26</li> <li>• 6-4 Solve Systems by Elimination (8.EE.3.8b, 8.EE.3.8c)</li> <li>• Remediate/Review</li> </ul>		
8 5/2 – 5/6	<ul style="list-style-type: none"> <li>• Assess</li> <li>• Standards Review</li> </ul>		
9 5/9 – 5/13	<ul style="list-style-type: none"> <li>• Standards Review</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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