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Publisher Resource:

Go Math (use student Active Directory)

Other Course Supplemental Resources:

IXL Math – Grade 8 Standards

Khan Academy
- Grade 8 - Pre-Algebra

Math Nation (use Active Directory)

FSA Practice: (Please Note: these links work best in Firefox or Chrome)

Grade 8 Pre-Algebra FSA Mathematics Computer-Based PRACTICE TEST
Grade 8 Pre-Algebra FSA Mathematics Computer-Based PRACTICE TEST ANSWER KEY

Mathematics Practice Tests – PARCC (Partnership for Assessment of Readiness for College and Careers)
Mathematics Answer Keys – PARCC

Mathematics Practice Tests – Smarter Balanced Assessment Consortium
Mathematics Practice Tests - Scoring Guides - Smarter Balanced
## Quarter 1
### Aug 10 – Oct 13

<table>
<thead>
<tr>
<th>Week</th>
<th>Major Concepts / Topics</th>
<th>Possible Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>Unit 0</strong>&lt;br&gt;<strong>Prerequisite Skills</strong> - May include long division, operations with integers, solving linear equations.</td>
<td>Module 0 - Khan Academy</td>
</tr>
<tr>
<td>2</td>
<td><strong>Unit 1 - Real Numbers, Exponents, and Scientific Notation</strong>&lt;br&gt;<strong>Module 1 - Real Numbers - Lesson 1.1 Rational and Irrational Numbers</strong>&lt;br&gt;<strong>Module 1 - Lesson 1.2 Sets of Real Numbers</strong>&lt;br&gt;<strong>Lesson 1.3 - Ordering Real Numbers</strong></td>
<td>Lesson 1.1 - Khan Academy&lt;br&gt;Lesson 1.2 - Khan Academy&lt;br&gt;Lesson 1.3 - Khan Academy</td>
</tr>
<tr>
<td>3</td>
<td><strong>Unit 1 - Real Numbers, Exponents, and Scientific Notation</strong>&lt;br&gt;<strong>Module 1 - Lesson 1.3 - Ordering Real Numbers</strong>&lt;br&gt;<strong>Assessment</strong>&lt;br&gt;<strong>Module 2 - Exponents and Scientific Notation - Lesson 2.1 Integer Exponents</strong></td>
<td>Lesson 2.1 - Khan Academy</td>
</tr>
<tr>
<td>4</td>
<td><strong>Unit 1 - Real Numbers, Exponents, and Scientific Notation</strong>&lt;br&gt;<strong>Module 2 - Lesson 2.1 - Integer Exponents</strong>&lt;br&gt;<strong>Lesson 2.2 Scientific Notation with Positive Powers of 10</strong></td>
<td>Lesson 2.2 - Khan Academy</td>
</tr>
<tr>
<td>5</td>
<td><strong>Unit 1 - Real Numbers, Exponents, and Scientific Notation</strong>&lt;br&gt;<strong>Module 2 - Lesson 2.3 - Scientific Notation with Negative Powers of 10</strong>&lt;br&gt;<strong>Lesson 2.4 - Operations with Scientific Notation</strong></td>
<td>Lesson 2.3 - Khan Academy&lt;br&gt;Lesson 2.4 - Khan Academy</td>
</tr>
<tr>
<td>6</td>
<td><strong>Unit 1 - Real Numbers, Exponents, and Scientific Notation</strong>&lt;br&gt;<strong>Module 2 - Lesson 2.4 - Operations with Scientific Notation</strong>&lt;br&gt;<strong>Assessment</strong></td>
<td>Lesson 2.4 - Khan Academy</td>
</tr>
<tr>
<td>7</td>
<td><strong>Unit 2 - Proportional and Nonproportional Relationships and Functions</strong>&lt;br&gt;<strong>Module 3 - Proportional Relationships - Lesson 3.1 - Representing Proportional Relationships</strong>&lt;br&gt;<strong>Lesson 3.3 - Interpreting the Unit Rate as Slope</strong></td>
<td>Lesson 3.1 - Khan Academy&lt;br&gt;Lesson 3.3 - Khan Academy</td>
</tr>
<tr>
<td>8</td>
<td><strong>Unit 2 - Proportional and Nonproportional Relationships and Functions</strong>&lt;br&gt;<strong>Module 3 - Lesson 3.2 - Rate of Change as Slope</strong>&lt;br&gt;<strong>Assessment</strong></td>
<td>Lesson 3.2 - Khan Academy</td>
</tr>
<tr>
<td>9</td>
<td><strong>Unit 2 - Proportional and Nonproportional Relationships and Functions</strong>&lt;br&gt;<strong>Module 4 - Non-proportional Relationships - Lesson 4.1 - Representing Linear Non-Proportional Relationships</strong>&lt;br&gt;<strong>Lesson 4.2 - Determining Slope and Y-Intercept</strong></td>
<td>Lesson 4.1 - Khan Academy&lt;br&gt;Lesson 4.2 - Khan Academy</td>
</tr>
<tr>
<td>10</td>
<td><strong>Unit 2 - Proportional and Nonproportional Relationships and Functions</strong></td>
<td>Lesson 4.3 - Khan Academy</td>
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- Module 4 – Lesson 4.3 - Graphing Linear Non-Proportional Relationships Using Slope and Y-Intercept
- Quarter Assessment
<table>
<thead>
<tr>
<th>Week</th>
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</table>
| 1    | Unit 2 - Proportional and Nonproportional Relationships and Functions  
      • Module 4 - Non-Proportional Relationships - Lesson 4.4 - Proportional and Nonproportional Situations  
      • Assessment | Lesson 4.4 - Khan Academy |
| 2    | Unit 2 - Proportional and Nonproportional Relationships and Functions  
      • Module 5 - Writing Linear Equations - Lesson 5.1 Writing Linear Equations from Situations and Graphs  
      • Lesson 5.2 - Writing Linear Equations from a Table | Lesson 5.1 - Khan Academy  
                                                                 Lesson 5.2 - Khan Academy |
| 3    | Unit 2 - Proportional and Nonproportional Relationships and Functions  
      • Module 6 - Functions - Lesson 6.1 - Identifying and Representing Functions  
      • Lesson 6.2 - Describing Functions  
      • Module 6 - Lesson 6.3 - Comparing Functions | Lesson 6.1 - Khan Academy  
                                                                 Lesson 6.2 - Khan Academy  
                                                                 Lesson 6.3 - Khan Academy |
| 4    | Unit 2 - Proportional and Nonproportional Relationships and Functions  
      • Lesson 6.4 - Analyzing Graphs  
      • Assessment | Lesson 6.4 - Khan Academy |
| 5    | Unit 3 - Solving Equations and Systems of Equations  
      • Module 7 - Solving Linear Equations - Lesson 7.1 - Equations with the variable on Both Sides | Lesson 7.1 - Khan Academy |
| 6    | Unit 3 - Solving Equations and Systems of Equations  
      • Module 7 - Lesson 7.1 - Equations with the Variable on Both Sides | Lesson 7.1 - Khan Academy |
| 7    | Unit 3 - Solving Equations and Systems of Equations  
      • Module 7 - Lesson 7.2 - Equations with Rational Numbers  
      • Module 7 - Lesson 7.3 - Equations with Distributive Property | Lesson 7.2 - Khan Academy  
                                                                 Lesson 7.3 - Khan Academy |
| 8    | Unit 3 - Solving Equations and Systems of Equations  
      • Module 7 - Lesson 7.4 - Equations with Many Solutions or No Solution  
      • Semester Assessment | Lesson 7.4 - Khan Academy  
                                                                 Semester Assessment |
| 9    | Unit 3 - Solving Equations and Systems of Equations  
      • Module 8 - Solving Systems of Linear Equations - Lesson 8.1 - Solving Systems of Linear Equations by Graphing | Lesson 8.1 - Khan Academy |

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### Quarter 3
**Jan 8 – Mar 15**

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<tr>
<th>Week</th>
<th>Major Concepts / Topics</th>
<th>Possible Resources</th>
</tr>
</thead>
</table>
| 1    | **Unit 4 - Transformational Geometry**  
     1/8 – 1/12  
     - Module 9 - Transformations and Congruence - Lesson 9.1 - Properties of Translations  
     - Module 9 - Lesson 9.2 - Properties of Reflections  
     | Lesson 9.1 - Khan Academy |
| 2    | **Unit 4 - Transformational Geometry**  
     1/16 – 1/19  
     - Lesson 9.3 - Properties of Rotations  
     - Lesson 9.4 - Algebraic Representations of Transformations  
     | Lesson 9.2 - Khan Academy  
     Lesson 9.3 - Khan Academy  
     Lesson 9.4 - Khan Academy |
| 3    | **Unit 4 - Transformational Geometry**  
     1/22 – 1/26  
     - Lesson 9.5 - Congruent Figures  
     - Assessment  
     | Lesson 9.5 - Khan Academy |
| 4    | **Unit 4 - Transformational Geometry**  
     1/30 – 2/2  
     - Module 10 - Transformations and Similarity - Lesson 10.1 - Properties of Dilations  
     - Lesson 10.2 - Algebraic Representations of Dilations  
     - Module 10 - Lesson 10.3 - Similar Figures  
     | Lesson 10.1 - Khan Academy  
     Lesson 10.2 - Khan Academy  
     Lesson 10.3 - Khan Academy |
| 5    | **Unit 5 - Measurement Geometry**  
     2/5 – 2/9  
     - Module 11 - Lesson 11.3 – Angle-Angle Similarity  
     - Assessment  
     - Module 11 - Angle Relationships in Parallel Lines and Triangles - Lesson 11.1 - Parallel Lines Cut by a Transversal  
     | Lesson 11.3 - Khan Academy  
     Lesson 11.1 - Khan Academy |
| 6    | **Unit 5 - Measurement Geometry**  
     2/12 – 2/16  
     - Module 11 - Lesson 11.2 - Angle Theorems for Triangles  
     - Assessment  
     | Lesson 11.2 - Khan Academy |
| 7    | **Unit 5 - Measurement Geometry**  
     2/20 – 2/23  
     - Module 12 - The Pythagorean Theorem - Lesson 12.1 - The Pythagorean Theorem  
     | Lesson 12.1 - Khan Academy |
| 8    | **Unit 5 - Measurement Geometry**  
     2/26 – 3/2  
     - Module 12 - Lesson 12.2 - The converse of the Pythagorean Theorem  
     - Module 12 - Lesson 12.3 - Distance Between Two Points  
     | Lesson 12.2 - Khan Academy  
     Lesson 12.3 - Khan Academy |
| 9    | **Unit 5 - Measurement Geometry**  
     3/5 – 3/9  
     - Assessment  
     - Module 13 - Volume - Lesson 13.1 - Volume of Cylinders  
     | Lesson 13.1 - Khan Academy |
| 10   | **Unit 5 - Measurement Geometry**  
     3/12 – 3/15  
     - Module 13 - Lesson 13.2 - Volume of Cones  
     - Lesson 13.3 - Volume of Spheres  
     - Quarter Assessment  
     | Lesson 13.2 - Khan Academy  
     Lesson 13.3 - Khan Academy |

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<td>1</td>
<td><strong>Unit 6 - Statistics</strong></td>
<td>Lesson 14.1 - <a href="#">Khan Academy</a></td>
</tr>
<tr>
<td>3/19 – 3/23</td>
<td>• Module 14 - Scatter Plots - Lesson 14.1 - Scatter Plots and Association&lt;br&gt;• Lesson 14.2 - Trend Lines and Predictions&lt;br&gt;• Assessment</td>
<td>Lesson 14.2 - <a href="#">Khan Academy</a></td>
</tr>
<tr>
<td>2</td>
<td><strong>SPRING BREAK – NO SCHOOL</strong></td>
<td></td>
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<tr>
<td>3/26 – 3/30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td><strong>Unit 6 - Statistics</strong></td>
<td>Lesson 15.1 - <a href="#">Khan Academy</a></td>
</tr>
<tr>
<td>3/26 – 3/30</td>
<td>• Module 15 - Two-Way Tables - Lesson 15.1 - Two-Way Frequency Tables&lt;br&gt;• Lesson 15.2 - Two-Way Relative Frequency Tables&lt;br&gt;• Assessment</td>
<td>Lesson 15.2 - <a href="#">Khan Academy</a></td>
</tr>
<tr>
<td>3</td>
<td><strong>Unit 3 - Solving Equations and Systems of Equations</strong></td>
<td></td>
</tr>
<tr>
<td>4/2 – 4/6</td>
<td>• Module 8 - Solving Systems of Linear Equations - Lesson 8.2 - Solving Systems by Substitution</td>
<td>Lesson 8.2 - <a href="#">Khan Academy</a></td>
</tr>
<tr>
<td>4</td>
<td><strong>Unit 3 - Solving Equations and Systems of Equations</strong></td>
<td></td>
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<tr>
<td>4/9 – 4/13</td>
<td>• Module 8 - Lesson 8.3 - Solving Systems by Eliminations&lt;br&gt;• Lesson 8.4 - Solving Systems by Elimination with Multiplication</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td><strong>Unit 3 - Solving Equations and Systems of Equations</strong></td>
<td></td>
</tr>
<tr>
<td>4/16 – 4/20</td>
<td>• Module 8 - Lesson 8.5 - Solving Special Systems&lt;br&gt;• Performance Tasks</td>
<td>Lesson 8.5 - <a href="#">Khan Academy</a></td>
</tr>
<tr>
<td>6</td>
<td><strong>Unit 3 - Solving Equations and Systems of Equations</strong></td>
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<tr>
<td>4/23 – 4/27</td>
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<td></td>
</tr>
<tr>
<td>7</td>
<td><strong>Unit 3 - Solving Equations and Systems of Equations</strong></td>
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<tr>
<td>4/30 – 5/4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td><strong>Unit 3 - Solving Equations and Systems of Equations</strong></td>
<td></td>
</tr>
<tr>
<td>5/7 – 5/11</td>
<td>• Algebra 1 Prerequisites - Rate of Change and Graphing a Line</td>
<td><a href="#">Intro to Algebra</a> - <a href="#">Khan Academy</a></td>
</tr>
<tr>
<td>9</td>
<td><strong>Unit 3 - Solving Equations and Systems of Equations</strong></td>
<td></td>
</tr>
<tr>
<td>5/14 – 5/18</td>
<td>• Algebra 1 Prerequisites - Solving a Systems by Graphing and distinguishing between graphs with one, zero, or infinite solutions.</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td><strong>Unit 3 - Solving Equations and Systems of Equations</strong></td>
<td></td>
</tr>
<tr>
<td>5/21 – 5/24</td>
<td>• Algebra 1 Prerequisites - Exponents and Laws of Exponents</td>
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