

**Please Note:**

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course are best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

**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](#)

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

	Week	Major Concepts / Topics	Possible Resources
Quarter 1 Aug 10 – Oct 13	1 8/10 - 8/11	<b>Unit 0</b> <ul style="list-style-type: none"> <li>Prerequisite Skills -May include long division, operations with integers, solving linear equations.</li> </ul>	Module 0 - <a href="#">Khan Academy</a>
	2 8/14 – 8/18	<b>Unit 1 - Real Numbers, Exponents, and Scientific Notation</b> <ul style="list-style-type: none"> <li>Module 1 - Real Numbers - Lesson 1.1 Rational and Irrational Numbers</li> <li>Module 1 - Lesson 1.2 Sets of Real Numbers</li> <li>Lesson 1.3 - Ordering Real Numbers</li> </ul>	Lesson 1.1 - <a href="#">Khan Academy</a> Lesson 1.2 - <a href="#">Khan Academy</a> Lesson 1.3 - <a href="#">Khan Academy</a>
	3 8/21 – 8/25	<b>Unit 1 - Real Numbers, Exponents, and Scientific Notation</b> <ul style="list-style-type: none"> <li>Module 1 -Lesson 1.3 - Ordering Real Numbers</li> <li>Assessment</li> <li>Module 2 - Exponents and Scientific Notation - Lesson 2.1 Integer Exponents</li> </ul>	Lesson 2.1 - <a href="#">Khan Academy</a>
	4 8/28 – 9/1	<b>Unit 1 - Real Numbers, Exponents, and Scientific Notation</b> <ul style="list-style-type: none"> <li>Module 2 - Lesson 2.1 - Integer Exponents</li> <li>Lesson 2.2 Scientific Notation with Positive Powers of 10</li> </ul>	Lesson 2.2 - <a href="#">Khan Academy</a>
	5 9/5 – 9/8	<b>Unit 1 - Real Numbers, Exponents, and Scientific Notation</b> <ul style="list-style-type: none"> <li>Module 2 - Lesson 2.3 - Scientific Notation with Negative Powers of 10</li> <li>Lesson 2.4 - Operations with Scientific Notation</li> </ul>	Lesson 2.3 - <a href="#">Khan Academy</a> Lesson 2.4 - <a href="#">Khan Academy</a>
	6 9/11 – 9/15	<b>Unit 1 - Real Numbers, Exponents, and Scientific Notation</b> <ul style="list-style-type: none"> <li>Module 2 - Lesson 2.4 - Operations with Scientific Notation</li> <li>Assessment</li> </ul>	Lesson 2.4 - <a href="#">Khan Academy</a>
	7 9/18 – 9/22	<b>Unit 2 - Proportional and Nonproportional Relationships and Functions</b> <ul style="list-style-type: none"> <li>Module 3 - Proportional Relationships - Lesson 3.1 - Representing Proportional Relationships</li> <li>Lesson 3.3 - Interpreting the Unit Rate as Slope</li> </ul>	Lesson 3.1 - <a href="#">Khan Academy</a> Lesson 3.3 - <a href="#">Khan Academy</a>
	8 9/25 – 9/29	<b>Unit 2 - Proportional and Nonproportional Relationships and Functions</b> <ul style="list-style-type: none"> <li>Module 3 - Lesson 3.2 - Rate of Change as Slope</li> <li>Assessment</li> </ul>	Lesson 3.2 - <a href="#">Khan Academy</a>
	9 10/2 – 10/6	<b>Unit 2 - Proportional and Nonproportional Relationships and Functions</b> <ul style="list-style-type: none"> <li>Module 4 - Non-proportional Relationships - Lesson 4.1 - Representing Linear Non-Proportional Relationships</li> <li>Lesson 4.2 - Determining Slope and Y-Intercept</li> </ul>	Lesson 4.1 - <a href="#">Khan Academy</a> Lesson 4.2 - <a href="#">Khan Academy</a>
	10 10/9 – 10/13	<b>Unit 2 - Proportional and Nonproportional Relationships and Functions</b>	Lesson 4.3 - <a href="#">Khan Academy</a>

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

# Grade 8 Mathematics – Pre-Algebra

2017 – 2018

- |  |   |
|--|---|
|  | <ul style="list-style-type: none"><li>• Module 4 – Lesson 4.3 - Graphing Linear Non-Proportional Relationships Using Slope and Y-Intercept</li><li>• Quarter Assessment</li></ul> |
|--|---|

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

	Week	Major Concepts / Topics	Possible Resources
Quarter 2 Oct 17 – Dec 21	1 10/17 – 10/20	<b>Unit 2 - Proportional and Nonproportional Relationships and Functions</b> <ul style="list-style-type: none"> <li>Module 4 - Non-Proportional Relationships - Lesson 4.4 - Proportional and Nonproportional Situations</li> <li>Assessment</li> </ul>	Lesson 4.4 - <a href="#">Khan Academy</a>
	2 10/23 – 10/27	<b>Unit 2 - Proportional and Nonproportional Relationships and Functions</b> <ul style="list-style-type: none"> <li>Module 5 - Writing Linear Equations - Lesson 5.1 Writing Linear Equations from Situations and Graphs</li> <li>Lesson 5.2- Writing Linear Equations from a Table</li> </ul>	Lesson 5.1 - <a href="#">Khan Academy</a> Lesson 5.2 - <a href="#">Khan Academy</a>
	3 10/30 – 11/3	<b>Unit 2 - Proportional and Nonproportional Relationships and Functions</b> <ul style="list-style-type: none"> <li>Module 6 - Functions - Lesson 6.1 - Identifying and Representing Functions</li> <li>Lesson 6.2 - Describing Functions</li> <li>Module 6 - Lesson 6.3 - Comparing Functions</li> </ul>	Lesson 6.1 - <a href="#">Khan Academy</a> Lesson 6.2 - <a href="#">Khan Academy</a> Lesson 6.3 - <a href="#">Khan Academy</a>
	4 11/6 – 11/9	<b>Unit 2 - Proportional and Nonproportional Relationships and Functions</b> <ul style="list-style-type: none"> <li>Lesson 6.4 - Analyzing Graphs</li> <li>Assessment</li> </ul>	Lesson 6.4 - <a href="#">Khan Academy</a>
	5 11/13 – 11/17	<b>Unit 3 - Solving Equations and Systems of Equations</b> <ul style="list-style-type: none"> <li>Module 7 - Solving Linear Equations - Lesson 7.1 - Equations with the variable on Both Sides</li> </ul>	Lesson 7.1 - <a href="#">Khan Academy</a>
	6 11/20 – 11/21	<b>Unit 3 - Solving Equations and Systems of Equations</b> <ul style="list-style-type: none"> <li>Module 7 - Lesson 7.1 - Equations with the Variable on Both Sides</li> </ul>	Lesson 7.1 - <a href="#">Khan Academy</a>
	7 11/27 – 12/1	<b>Unit 3 - Solving Equations and Systems of Equations</b> <ul style="list-style-type: none"> <li>Module 7 - Lesson 7.2 - Equations with Rational Numbers</li> <li>Module 7 - Lesson 7.3 - Equations with Distributive Property</li> </ul>	Lesson 7.2 - <a href="#">Khan Academy</a> Lesson 7.3 - <a href="#">Khan Academy</a>
	8 12/4 – 12/8	<b>Unit 3 - Solving Equations and Systems of Equations</b> <ul style="list-style-type: none"> <li>Module 7 - Lesson 7.4 - Equations with Many Solutions or No Solution</li> </ul>	Lesson 7.4 - <a href="#">Khan Academy</a>
	9 12/11 – 12/15	<ul style="list-style-type: none"> <li>Semester Assessment</li> </ul>	
	10 12/18 – 12/21	<b>Unit 3 - Solving Equations and Systems of Equations</b> <ul style="list-style-type: none"> <li>Module 8 - Solving Systems of Linear Equations - Lesson 8.1 - Solving Systems of Linear Equations by Graphing</li> </ul>	Lesson 8.1 - <a href="#">Khan Academy</a>

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

	Week	Major Concepts / Topics	Possible Resources
Quarter 3 Jan 8 – Mar 15	1 1/8 – 1/12	<b>Unit 4 - Transformational Geometry</b> <ul style="list-style-type: none"> <li>Module 9 - Transformations and Congruence - Lesson 9.1 - Properties of Translations</li> <li>Module 9 - Lesson 9.2 - Properties of Reflections</li> </ul>	Lesson 9.1 - <a href="#">Khan Academy</a>
	2 1/16 – 1/19	<b>Unit 4 - Transformational Geometry</b> <ul style="list-style-type: none"> <li>Lesson 9.3 - Properties of Rotations</li> <li>Lesson 9.4 - Algebraic Representations of Transformations</li> </ul>	Lesson 9.2 - <a href="#">Khan Academy</a> Lesson 9.3 - <a href="#">Khan Academy</a> Lesson 9.4 - <a href="#">Khan Academy</a>
	3 1/22 – 1/26	<b>Unit 4 - Transformational Geometry</b> <ul style="list-style-type: none"> <li>Lesson 9.5 - Congruent Figures</li> <li>Assessment</li> </ul>	Lesson 9.5 - <a href="#">Khan Academy</a>
	4 1/30 – 2/2	<b>Unit 4 - Transformational Geometry</b> <ul style="list-style-type: none"> <li>Module 10 - Transformations and Similarity - Lesson 10.1 - Properties of Dilations</li> <li>Lesson 10.2 - Algebraic Representations of Dilations</li> <li>Module 10 - Lesson 10.3 - Similar Figures</li> </ul>	Lesson 10.1 - <a href="#">Khan Academy</a> Lesson 10.2 - <a href="#">Khan Academy</a> Lesson 10.3 - <a href="#">Khan Academy</a>
	5 2/5 – 2/9	<b>Unit 5 - Measurement Geometry</b> <ul style="list-style-type: none"> <li>Module 11 - Lesson 11.3 – Angle-Angle Similarity</li> <li>Assessment</li> <li>Module 11 - Angle Relationships in Parallel Lines and Triangles - Lesson 11.1 - Parallel Lines Cut by a Transversal</li> </ul>	Lesson 11.3 - <a href="#">Khan Academy</a> Lesson 11.1 - <a href="#">Khan Academy</a>
	6 2/12 – 2/16	<b>Unit 5 - Measurement Geometry</b> <ul style="list-style-type: none"> <li>Module 11 - Lesson 11.2 - Angle Theorems for Triangles</li> <li>Assessment</li> </ul>	Lesson 11.2 - <a href="#">Khan Academy</a>
	7 2/20 – 2/23	<b>Unit 5 - Measurement Geometry</b> <ul style="list-style-type: none"> <li>Module 12 - The Pythagorean Theorem - Lesson 12.1 - The Pythagorean Theorem</li> </ul>	Lesson 12.1 - <a href="#">Khan Academy</a>
	8 2/26 – 3/2	<b>Unit 5 - Measurement Geometry</b> <ul style="list-style-type: none"> <li>Module 12 - Lesson 12.2 - The converse of the Pythagorean Theorem</li> <li>Module 12 - Lesson 12.3 - Distance Between Two Points</li> </ul>	Lesson 12.2 - <a href="#">Khan Academy</a> Lesson 12.3 - <a href="#">Khan Academy</a>
	9 3/5 – 3/9	<b>Unit 5 - Measurement Geometry</b> <ul style="list-style-type: none"> <li>Assessment</li> <li>Module 13 - Volume - Lesson 13.1 - Volume of Cylinders</li> </ul>	Lesson 13.1 - <a href="#">Khan Academy</a>
	10 3/12 – 3/15	<b>Unit 5 - Measurement Geometry</b> <ul style="list-style-type: none"> <li>Module 13 - Lesson 13.2 - Volume of Cones</li> <li>Lesson 13.3 - Volume of Spheres</li> <li>Quarter Assessment</li> </ul>	Lesson 13.2 - <a href="#">Khan Academy</a> Lesson 13.3 - <a href="#">Khan Academy</a>

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.

	Week	Major Concepts / Topics	Possible Resources
Quarter 4 Mar 19 – May 24	1 3/19 – 3/23	<b>Unit 6 - Statistics</b> <ul style="list-style-type: none"> <li>Module 14 - Scatter Plots - Lesson 14.1 - Scatter Plots and Association</li> <li>Lesson 14.2 - Trend Lines and Predictions</li> <li>Assessment</li> </ul>	Lesson 14.1 - <a href="#">Khan Academy</a> Lesson 14.2 - <a href="#">Khan Academy</a>
	2 3/26 – 3/30	<ul style="list-style-type: none"> <li><b>SPRING BREAK – NO SCHOOL</b></li> </ul>	
	3 4/2 – 4/6	<b>Unit 6 - Statistics</b> <ul style="list-style-type: none"> <li>Module 15 - Two-Way Tables - Lesson 15.1 - Two-Way Frequency Tables</li> <li>Lesson 15.2 - Two-Way Relative Frequency Tables</li> <li>Assessment</li> </ul>	Lesson 15.1 - <a href="#">Khan Academy</a> Lesson 15.2 - <a href="#">Khan Academy</a>
	4 4/9 – 4/13	<b>Unit 3 - Solving Equations and Systems of Equations</b> <ul style="list-style-type: none"> <li>Module 8 - Solving Systems of Linear Equations - Lesson 8.2 - Solving Systems by Substitution</li> </ul>	Lesson 8.2 - <a href="#">Khan Academy</a>
	5 4/16 – 4/20	<b>Unit 3 - Solving Equations and Systems of Equations</b> <ul style="list-style-type: none"> <li>Module 8 - Lesson 8.3 - Solving Systems by Eliminations</li> <li>Lesson 8.4 - Solving Systems by Elimination with Multiplication</li> </ul>	Lesson 8.3 - <a href="#">Khan Academy</a> Lesson 8.4 - <a href="#">Khan Academy</a>
	6 4/23 – 4/27	<b>Unit 3 - Solving Equations and Systems of Equations</b> <ul style="list-style-type: none"> <li>Module 8 - Lesson 8.5 - Solving Special Systems</li> </ul>	Lesson 8.5 - <a href="#">Khan Academy</a>
	7 4/30 – 5/4	<ul style="list-style-type: none"> <li>Performance Tasks</li> </ul>	
	8 5/7 – 5/11	<ul style="list-style-type: none"> <li>Algebra 1 Prerequisites - Rate of Change and Graphing a Line</li> </ul>	Intro to Algebra - <a href="#">Khan Academy</a>
	9 5/14 – 5/18	<ul style="list-style-type: none"> <li>Algebra 1 Prerequisites - Solving a Systems by Graphing and distinguishing between graphs with one, zero, or infinite solutions.</li> </ul>	
	10 5/21 – 5/24	<ul style="list-style-type: none"> <li>Algebra 1 Prerequisites - Exponents and Laws of Exponents</li> </ul>	

All standards in the state course description are designed to be learned by the end of the course. This guide represents a recommended time line and sequence to be used voluntarily by teachers for planning purposes. Specific questions regarding when content will actually be addressed in a specific course is best answered by the individual teacher.

Teachers may use a wide variety of instructional materials throughout their course. The Possible Resources listed may include the district adopted instructional resource or supplemental resources that align to the topic and/or standard. These Possible Resources provide sample problems that align to the topic/standard.