#### Please Note:

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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:

<u>Go Math</u> (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 FSA Mathematics Computer-Based Practice Test Answer Key

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

### <u>Mathematics Practice Tests – Smarter Balanced Assessment Consortium</u> <u>Mathematics Practice Tests - Scoring Guides - Smarter Balanced</u>

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	Week	Major Concepts / Topics	Possible Resources
	1	• Prerequisite Skills -May include long division, operations with integers,	Khan Academy
	8/10	solving linear equations.	
		Unit 1 - Real Numbers, Exponents, and Scientific Notation	
	2 8/13 - 8/17	Module 1 - Real Numbers - Lesson 1.1 Rational and Irrational Numbers	Lesson 1.1 - <u>Khan Academy</u>
		Module 1 - Lesson 1.2 Sets of Real Numbers	Lesson 1.2 - <u>Khan Academy</u> Lesson 1.3 - Khan Academy
		Lesson 1.3 - Ordering Real Numbers	Lesson 1.5 - Khan Academy
		Unit 1 - Real Numbers, Exponents, and Scientific Notation	
	3	Module 1 -Lesson 1.3 - Ordering Real Numbers	
	8/20 - 8/24	Assessment	Lesson 2.1 - Khan Academy
		Module 2 - Exponents and Scientific Notation - Lesson 2.1 Integer	Resson 2.1 Man Academy
		Exponents	
	4	Unit 1 - Real Numbers, Exponents, and Scientific Notation	
	8/27 – 8/31	<ul> <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 - Khan Academy
Quarter 1	5 9/3 – 9/7	Unit 1 - Real Numbers, Exponents, and Scientific Notation	
Aug 10 – Oct 12		<ul> <li>Module 2 - Lesson 2.3 - Scientific Notation with Negative Powers of 10</li> </ul>	Lesson 2.3 - Khan Academy
		<ul> <li>Lesson 2.4 - Operations with Scientific Notation</li> </ul>	Lesson 2.4 - Khan Academy
	6 9/10 – 9/14	Unit 1 - Real Numbers, Exponents, and Scientific Notation	
		<ul> <li>Module 2 - Lesson 2.4 - Operations with Scientific Notation</li> </ul>	Lesson 2.4 - Khan Academy
		Assessment	
		Unit 2 - Proportional and Nonproportional Relationships and Functions	
	7 9/17 – 9/21	Module 3 - Proportional Relationships - Lesson 3.1 - Representing	Lesson 3.1 - Khan Academy
		Proportional Relationships	Lesson 3.3 - <u>Khan Academy</u>
		Lesson 3.3 - Interpreting the Unit Rate as Slope	
	8 9/24 – 9/28	Unit 2 - Proportional and Nonproportional Relationships and Functions	
		Module 3 - Lesson 3.2 - Rate of Change as Slope	Lesson 3.2 - <u>Khan Academy</u>
		Assessment	
	9 10/1 – 10/5	Unit 2 - Proportional and Nonproportional Relationships and Functions	
		Module 4 - Non-proportional Relationships - Lesson 4.1 - Representing	Lesson 4.1 - <u>Khan Academy</u>
		Linear Non-Proportional Relationships	Lesson 4.2 - Khan Academy
		Lesson 4.2 - Determining Slope and Y-Intercept	

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	Unit 2 - Proportional and Nonproportional Relationships and Functions	
10	• Module 4 – Lesson 4.3 - Graphing Linear Non-Proportional Relationships	Lesson 4.3 - Khan Academy
10/8 - 10/12	Using Slope and Y-Intercept	
	Quarter Assessment	

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	Week	Major Concepts / Topics	Possible Resources
	1 10/16 – 10/19	<ul> <li>Unit 2 - Proportional and Nonproportional Relationships and Functions</li> <li>Module 4 - Non-Proportional Relationships - Lesson 4.4 - Proportional and Nonproportional Situations</li> <li>Assessment</li> </ul>	Lesson 4.4 - <u>Khan Academy</u>
	2 10/22 – 10/26	<ul> <li>Unit 2 - Proportional and Nonproportional Relationships and Functions</li> <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 - <u>Khan Academy</u> Lesson 5.2 - <u>Khan Academy</u>
	3 10/29 – 11/2	<ul> <li>Unit 2 - Proportional and Nonproportional Relationships and Functions</li> <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 - <u>Khan Academy</u> Lesson 6.2 - <u>Khan Academy</u> Lesson 6.3 - <u>Khan Academy</u>
Quarter 2 Oct 16 – Dec 21	4 11/5 – 11/9	<ul> <li>Unit 2 - Proportional and Nonproportional Relationships and Functions</li> <li>Lesson 6.4 - Analyzing Graphs</li> <li>Assessment</li> </ul>	Lesson 6.4 - <u>Khan Academy</u>
Oct 16 – Dec 21	5 11/12 – 11/16	<ul> <li>Unit 3 - Solving Equations and Systems of Equations</li> <li>Module 7 - Solving Linear Equations - Lesson 7.1 - Equations with the variable on Both Sides</li> </ul>	Lesson 7.1 - <u>Khan Academy</u>
	6 11/19 – 11/20	<ul> <li>Unit 3 - Solving Equations and Systems of Equations</li> <li>Module 7 - Lesson 7.1 - Equations with the Variable on Both Sides</li> </ul>	Lesson 7.1 - Khan Academy
	7 11/26 – 11/30	<ul> <li>Unit 3 - Solving Equations and Systems of Equations</li> <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 - <u>Khan Academy</u> Lesson 7.3 - <u>Khan Academy</u>
	8 12/3 – 12/7	<ul> <li>Unit 3 - Solving Equations and Systems of Equations</li> <li>Module 7 - Lesson 7.4 - Equations with Many Solutions or No Solution</li> </ul>	Lesson 7.4 - <u>Khan Academy</u>
	9 12/10 – 12/14	Semester Assessment	
	10 12/17 – 12/21	<ul> <li>Unit 3 - Solving Equations and Systems of Equations</li> <li>Module 8 - Solving Systems of Linear Equations - Lesson 8.1 - Solving Systems of Linear Equations by Graphing</li> </ul>	Lesson 8.1 - <u>Khan Academy</u>

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	Week	Major Concepts / Topics	Possible Resources
Quarter 3 Jan 7 – Mar 14	1 1/7– 1/11	<ul> <li>Unit 4 - Transformational Geometry</li> <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 - <u>Khan Academy</u>
	2 1/14 - 1/18	<ul> <li>Unit 4 - Transformational Geometry</li> <li>Lesson 9.3 - Properties of Rotations</li> <li>Lesson 9.4 - Algebraic Representations of Transformations</li> </ul>	Lesson 9.2 - <u>Khan Academy</u> Lesson 9.3 - <u>Khan Academy</u> Lesson 9.4 - <u>Khan Academy</u>
	3 1/21 – 1/25	<ul> <li>Unit 4 - Transformational Geometry</li> <li>Lesson 9.5 - Congruent Figures</li> <li>Assessment</li> </ul>	Lesson 9.5 - <u>Khan Academy</u>
	4 1/28 - 2/1	<ul> <li>Unit 4 - Transformational Geometry</li> <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 - <u>Khan Academy</u> Lesson 10.2 - <u>Khan Academy</u> Lesson 10.3 - <u>Khan Academy</u>
	5 2/4 – 2/8	<ul> <li>Unit 5 - Measurement Geometry</li> <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 - <u>Khan Academy</u> Lesson 11.1 - <u>Khan Academy</u>
	6 2/11 – 2/15	<ul> <li>Unit 5 - Measurement Geometry</li> <li>Module 11 - Lesson 11.2 - Angle Theorems for Triangles</li> <li>Assessment</li> </ul>	Lesson 11.2 - <u>Khan Academy</u>
	7 2/18 – 2/22	<ul> <li>Unit 5 - Measurement Geometry</li> <li>Module 12 - The Pythagorean Theorem - Lesson 12.1 - The Pythagorean Theorem</li> </ul>	Lesson 12.1 - <u>Khan Academy</u>
	8 2/25 – 3/1	<ul> <li>Unit 5 - Measurement Geometry</li> <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 - <u>Khan Academy</u> Lesson 12.3 - <u>Khan Academy</u>
	9 3/4 - 3/8	<ul> <li>Unit 5 - Measurement Geometry</li> <li>Assessment</li> <li>Module 13 - Volume - Lesson 13.1 - Volume of Cylinders</li> </ul>	Lesson 13.1 - <u>Khan Academy</u>
	10 3/11 - 3/14	<ul> <li>Unit 5 - Measurement Geometry</li> <li>Module 13 - Lesson 13.2 - Volume of Cones</li> </ul>	Lesson 13.2 - <u>Khan Academy</u> Lesson 13.3 - <u>Khan Academy</u>

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Lesson 13.3 - Volume of Spheres	
Quarter Assessment	

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	Week	Major Concepts / Topics	Possible Resources
	1 3/18 – 3/22	SPRING BREAK – NO SCHOOL	
	2 3/25 – 3/29	<ul> <li>Unit 6 - Statistics</li> <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 - <u>Khan Academy</u> Lesson 14.2 - <u>Khan Academy</u>
	3 4/1 - 4/5	<ul> <li>Unit 6 - Statistics</li> <li>Module 15 - Two-Way Tables - Lesson 15.1 - Two-Way Frequency Tables</li> </ul>	Lesson 15.1 - <u>Khan Academy</u>
Quarter 4	4 4/8 - 4/12	<ul> <li>Lesson 15.2 - Two-Way Relative Frequency Tables</li> <li>Assessment</li> </ul>	Lesson 15.2 - <u>Khan Academy</u>
Mar 18 – May 24	5 4/15 – 4/19	<ul> <li>Unit 3 - Solving Equations and Systems of Equations</li> <li>Module 8 - Solving Systems of Linear Equations - Lesson 8.2 - Solving Systems by Substitution</li> </ul>	Lesson 8.2 - <u>Khan Academy</u>
	6 4/22 – 4/26	<ul> <li>Unit 3 - Solving Equations and Systems of Equations</li> <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 - <u>Khan Academy</u> Lesson 8.4 - <u>Khan Academy</u>
	7 4/29 – 5/3	<ul> <li>Unit 3 - Solving Equations and Systems of Equations</li> <li>Module 8 - Lesson 8.5 - Solving Special Systems</li> </ul>	Lesson 8.5 - <u>Khan Academy</u>
	8 5/6 – 5/10	Performance Tasks	Intro to Algebra - <u>Khan Academy</u>
	9 5/13 – 5/17	Algebra 1 Prerequisites - Rate of Change and Graphing a Line	
	10 5/20 – 5/24	• Algebra 1 Prerequisites - Solving a Systems by Graphing and distinguishing between graphs with one, zero, or infinite solutions.	

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