

**Glassboro Public Schools**  
**7<sup>th</sup> Grade Math Pacing Guide, 2020-2021**

<b>Module 1</b>	<b>Identify and Represent Proportional Relationships</b>	<b>Total Days: 15</b>
1.1	<ul style="list-style-type: none"> <li>Use unit rates to describe data</li> </ul>	1 day
1.2	<ul style="list-style-type: none"> <li>Identify proportional relationships in tables and equations</li> <li>Identify the constant of proportionality</li> <li>Write equations in the form <math>y=kx</math></li> </ul>	2 days
1.3	<ul style="list-style-type: none"> <li>Find and use unit rates involving fractions</li> </ul>	2 days
1.4	<ul style="list-style-type: none"> <li>Identify the characteristics of a proportional relationship when graphed</li> </ul>	2 days
1.5	<ul style="list-style-type: none"> <li>Use proportional relationships to solve multi-step problems</li> </ul>	2 days
1.6	<ul style="list-style-type: none"> <li>Use scale drawings to solve problems</li> </ul>	2 days
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	4 days

<b>Module 2</b>	<b>Proportional Reasoning with Percents</b>	<b>Total Days: 14</b>
2.1	<ul style="list-style-type: none"> <li>Use proportional reasoning to calculate percent increase or decrease</li> </ul>	2 days
2.2	<ul style="list-style-type: none"> <li>Calculate markups, markdowns, retail prices, and discount prices</li> <li>Represent the above using equations</li> </ul>	2 days
2.3	<ul style="list-style-type: none"> <li>Apply proportional reasoning to represent taxes, gratuities, and total cost</li> </ul>	2 days
2.4	<ul style="list-style-type: none"> <li>Find the total earnings of a commission-based job</li> </ul>	2 days
2.5	<ul style="list-style-type: none"> <li>Calculate simple interest and the total value of an account</li> </ul>	2 days
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	4 days

<b>Module 3</b>	<b>Rational Number Operations</b>	<b>Total Days: 10</b>
3.1	<ul style="list-style-type: none"> <li>Use a number line to add and subtract positive integers</li> </ul>	2 days
3.2	<ul style="list-style-type: none"> <li>Use a number line to add and subtract negative integers</li> </ul>	2 days
3.3	<ul style="list-style-type: none"> <li>Use a number line to add and subtract rational numbers</li> </ul>	2 days
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	4 days

<b>Module 4</b>	<b>Identify and Represent Proportional Relationships</b>	<b>Total Days: 12</b>
4.1	<ul style="list-style-type: none"> <li>Calculate the sum of two integers</li> </ul>	2 days
4.2	<ul style="list-style-type: none"> <li>Calculate the difference of two integers</li> </ul>	2 days
4.3	<ul style="list-style-type: none"> <li>Fluently add and subtract rational numbers</li> </ul>	2 days
4.4	<ul style="list-style-type: none"> <li>Use properties to solve multi-step problems involving sums and differences of positive and negative rational numbers</li> </ul>	2 days
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	4 days

**Glassboro Public Schools**  
**7<sup>th</sup> Grade Math Pacing Guide, 2020-2021**

<b>Module 5</b>	<b>Multiply and Divide Rational Numbers</b>	<b>Total Days: 10 days</b>
5.1	<ul style="list-style-type: none"> <li>Find the product or quotient of two integers</li> </ul>	2 days
5.2	<ul style="list-style-type: none"> <li>Find the product of three or more signed rational numbers</li> </ul>	1 day
5.3	<ul style="list-style-type: none"> <li>Express quotients in different forms</li> </ul>	2 days
5.4	<ul style="list-style-type: none"> <li>Use products and quotients of rational numbers to solve problems</li> </ul>	1 day
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	4 days

<b>Module 6</b>	<b>Solve Multi-step Problems Using Rational Numbers</b>	<b>Total Days: 7 days</b>
6.1	<ul style="list-style-type: none"> <li>Apply properties and strategies to operate with rational numbers</li> </ul>	1 day
6.2	<ul style="list-style-type: none"> <li>Check the reasonableness of answers when solving multi-step, real-world problems</li> </ul>	1 day
6.3	<ul style="list-style-type: none"> <li>Solve multi-step problems involving a combination of rational number operations</li> </ul>	2 days
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	3 days

<b>Module 7</b>	<b>Solve Problems Using Expressions, Equations, and Inequalities</b>	<b>Total Days: 12 days</b>
7.1	<ul style="list-style-type: none"> <li>Use linear expressions to represent a quantity in different ways</li> </ul>	1 day
7.2	<ul style="list-style-type: none"> <li>Add, subtract, factor, and expand linear expressions with rational coefficients</li> </ul>	2 days
7.3	<ul style="list-style-type: none"> <li>Represent a real-world situation with an equation</li> </ul>	1 day
7.4	<ul style="list-style-type: none"> <li>Solve real-world situations using an equation</li> </ul>	2 days
7.5	<ul style="list-style-type: none"> <li>Write and solve two-step equations involving unknown angle measurements</li> </ul>	2 days
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	4 days

<b>Module 8</b>	<b>Solve Problems Using Inequalities</b>	<b>Total Days: 10 days</b>
8.1	<ul style="list-style-type: none"> <li>Apply properties to solve one-step inequalities</li> </ul>	2 days
8.2	<ul style="list-style-type: none"> <li>Write two-step inequalities to represent situations</li> </ul>	2 days
8.3	<ul style="list-style-type: none"> <li>Write and solve two-step inequalities to solve problems</li> </ul>	2 days
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	4 days

**Glassboro Public Schools**  
**7<sup>th</sup> Grade Math Pacing Guide, 2020-2021**

<b>Module 9</b>	<b>Draw and Analyze Two-Dimensional Figures</b>	<b>Total Days: 11 days</b>
9.1	<ul style="list-style-type: none"> <li>Draw and construct circles and other figures with given conditions</li> </ul>	2 days
9.2	<ul style="list-style-type: none"> <li>Determine how many triangles or quadrilaterals can be made given the side lengths: none, one, or many</li> </ul>	2 days
9.3	<ul style="list-style-type: none"> <li>Determine how many triangles can be made given the angle measure: none, one, or many</li> </ul>	2 days
9.4	<ul style="list-style-type: none"> <li>Draw, construct, and analyze two-dimensional figures to solve real-world problems</li> </ul>	1 day
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	4 days

<b>Module 10</b>	<b>Analyze Figures to Find Circumference and Area</b>	<b>Total Days: 10 days</b>
10.1	<ul style="list-style-type: none"> <li>Derive and apply formulas for circumference</li> </ul>	1 day
10.2	<ul style="list-style-type: none"> <li>Derive and apply formulas for the area of a circle</li> </ul>	2 days
10.3	<ul style="list-style-type: none"> <li>Describe and analyze cross sections of circular solids that result in circles, rectangles, and triangles</li> </ul>	2 days
10.4	<ul style="list-style-type: none"> <li>Use formulas to calculate the areas of composite figures</li> </ul>	1 day
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	4 days

<b>Module 11</b>	<b>Analyze Surface Area and Volume</b>	<b>Total Days: 8 days</b>
11.1	<ul style="list-style-type: none"> <li>Identify and describe the two-dimensional figures resulting from horizontal and vertical cross sections of pyramids and prisms</li> </ul>	1 day
11.2	<ul style="list-style-type: none"> <li>Learn to calculate the surface area of a right prism using the surface area formula</li> </ul>	1 day
11.3	<ul style="list-style-type: none"> <li>Calculate the volume of a right prism using the volume formula</li> </ul>	1 day
11.4	<ul style="list-style-type: none"> <li>Solve multi-step problems involving three-dimensional figures using formulas for surface area and volume</li> </ul>	2
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	3 days

<b>Module 12</b>	<b>Proportional Reasoning with Samples</b>	<b>Total Days: 7 days</b>
12.1	<ul style="list-style-type: none"> <li>Understand populations, random samples, and how to select a representative sample</li> </ul>	1 day
12.2	<ul style="list-style-type: none"> <li>Use a random sample to make inferences about a population</li> </ul>	2 days
12.3	<ul style="list-style-type: none"> <li>Understand that repeatedly sampling a population with the same size random sample will cause the data to vary</li> </ul>	1 day
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	3 days

**Glassboro Public Schools**  
**7<sup>th</sup> Grade Math Pacing Guide, 2020-2021**

<b>Module 13</b>	<b>Use Statistics and Graphs to Compare Data</b>	<b>Total Days: 7 days</b>
13.1	<ul style="list-style-type: none"> <li>Compare the center and spread of data displayed in dot plots</li> </ul>	1 day
13.2	<ul style="list-style-type: none"> <li>Compare data displayed in box plots, and use these comparisons to draw inferences about two populations</li> </ul>	1 day
13.3	<ul style="list-style-type: none"> <li>Use means and MAD's to compare two populations</li> </ul>	2 days
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	3 days

<b>Module 14</b>	<b>Understand and Apply Experimental Probability</b>	<b>Total Days: 11 days</b>
14.1	<ul style="list-style-type: none"> <li>Describe the likelihood of an event in terms of a probability between 0 and 1</li> </ul>	1 day
14.2	<ul style="list-style-type: none"> <li>Find the experimental probability of an event</li> </ul>	2 days
14.3	<ul style="list-style-type: none"> <li>Determine the probability of compound events</li> </ul>	2 days
14.4	<ul style="list-style-type: none"> <li>Use experimental probability and proportional reasoning to make predictions about real-world scenarios</li> </ul>	2 days
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	4 days

<b>Module 15</b>	<b>Understand and Apply Theoretical Probability</b>	<b>Total Days: 12 days</b>
15.1	<ul style="list-style-type: none"> <li>Find the theoretical probability of simple events and compare theoretical probability to experimental probability</li> </ul>	2 days
15.2	<ul style="list-style-type: none"> <li>Find and compare theoretical probabilities of compound events using a table, a tree diagram, and an organized list</li> </ul>	2 days
15.3	<ul style="list-style-type: none"> <li>Use theoretical probability and proportional reasoning to make a prediction about a simple or compound event, and make a qualitative prediction</li> </ul>	2 days
15.4	<ul style="list-style-type: none"> <li>Design and perform a simulation to test the probability of a simple event or a compound event</li> </ul>	2 days
	<ul style="list-style-type: none"> <li>Supplement, test prep, assessment</li> </ul>	4 days

**Total Days: 156**