Glassboro Public Schools
8th Grade Math Pacing Guide, 2020-2021

Module 1	**Transformations and Congruence**	**Total Days: 15**
1.1	• Explore and observe the effects of rigid motions on a figure	2 days
1.2	• Describe translations and their effects on a figure	2 days
1.3	• Describe reflections and their effects on a figure	2 days
1.4	• Recognize and perform rotations • Describe rotations algebraically • Understand that rotating a figure produces an image that that is congruent to the original	2 days
1.5	• Perform and describe sequences of transformations on figures	2 days
	• Supplement, test prep, assessment	5 days

Module 2		**Total Days: 10**
2.1	• Perform enlargements and reductions • Understand that the result of enlarging or reducing an image creates a new image that is not congruent to the original	2 days
2.2	• Describe and apply the properties of dilations • Find the scale factor and center of dilation, both on and off the coordinate plane	2 days
2.3	• Recognize and make similar figures when using dilations	2 days
	• Supplement, test prep, assessment	4 days

Module 3	**Solve Linear Equations**	**Total Days: 10**
3.1	• Use algebraic properties to solve one-variable linear equations	2 days
3.2	• Recognize and interpret linear equations that have no solution or infinitely many solutions	2 days
3.3	• Solve and apply linear equations in one variable	2 days
	• Supplement, test prep, assessment	4 days

Module 4	**Angle Relationships**	**Total Days: 10**
4.1	• Use angle relationships in triangles	2 days
4.2	• Identify whether two triangles are similar, given angle measures in the triangles	2 days
4.3	• Find missing angle measures when parallel lines are cut by a transversal	2 days
	• Supplement, test prep, assessment	4 days

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Module 5	**Proportional Relationships**	**Total Days: 12**
5.1	• Relate right triangles to the coordinates of a line going through the origin	2 days
5.2	• Write the equation of a proportional relationship	2 days
5.3	• Graph proportional relationships • Interpret unit rate as the slope of the graph of a proportional relationship	2 days
5.4	• Demonstrate and interpret proportional relationships between quantities	2 days
	• Supplement, test prep, assessment	4 days

Module 6	**Understand and Analyze Functions**	**Total Days: 17**
6.1	• Visually display a relationship between two variables	2 days
6.2	• Write the equation of a linear function	2 days
6.3	• Interpret the slope and y-intercept of a line	2 days
6.4	• Construct a function to model a linear relationship	2 days
6.5	• Use tables, graphs, and equations to compare functions	2 days
6.6	• Sketch and analyze a graph that exhibits the qualitative features of a function	2 days
	• Supplement, test prep, assessment	5 days

Module 7		**Total Days: 17 days**
7.1	• Interpret the graphical representation of two linear equations	2 days
7.2	• Solve a system of two linear equations by graphing	2 days
7.3	• Use substitution to solve a system of two linear equations	2 days
7.4	• Use elimination to solve a system of two linear equations	2 days
7.5	• Recognize and interpret systems of two linear equations that have no solution or infinitely many solutions	2 days
7.6	• Use systems of two linear equations to solve real-world problems	2 days
	• Supplement, test prep, assessment	5 days

Module 8	**Scatter Plots**	**Total Days: 10**
8.1	• Display and analyze data with two variables	2 days
8.2	• Use trend lines to describe a linear relationship between two variables	2 days
8.3	• Use scatter plots and trend lines to interpret linear data in context	2 days
	• Supplement, test prep, assessment	4 days

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Module 9	**Two-Way Tables**	**Total Days: 10**
9.1	• Interpret data by constructing two-way frequency tables	2 days
9.2	• Construct two-way relative frequency tables	2 days
9.3	• Interpret and analyze data using two-way relative frequency	2 days
	• Supplement, test prep, assessment	4 days

Module 10	**Real Numbers**	**Total Days: 10**
10.1	• Determine if a number is rational	2 days
10.2	• Evaluate square and cube roots	2 days
10.3	• Order a list of real numbers consisting of both rational and irrational numbers	2 days
	• Supplement, test prep, assessment	4 days

Module 11	**The Pythagorean Theorem**	**Total Days: 12**
11.1	• Prove and use the Pythagorean Theorem	2 days
11.2	• Prove and apply the Pythagorean Theorem and its converse	2 days
11.3	• Use the Pythagorean Theorem to solve real-world problems	2 days
11.4	• Use the Pythagorean Theorem to determine distance between any two points in the coordinate plane	2 days
	• Supplement, test prep, assessment	4 days

Module 12	**Exponents and Scientific Notation**	**Total Days: 10**
12.1	• Develop and use the properties of integer exponents	2 days
12.2	• Express numbers using scientific notation	2 days
12.3	• Compute with numbers written in scientific notation	2 days
	• Supplement, test prep, assessment	4 days

Module 13	**Volume**	**Total Days: 12**
13.1	• Develop and use the formula for the volume of a cylinder	2 days
13.2	• Develop and use the formula for the volume of a cone	2 days
13.3	• Develop and use the formula for the volume of a sphere	2 days
13.4	• Use volume formulas to solve problems involving cylinders	2 days
	• Supplement, test prep, assessment	4 days

Total Days: 155