

GSC 8th Grade Math Pacing Guide (CMP 3)

						Common Core	Ala. Math Course of Study (2016)	Date Started	Date Completed		
Thinking With Mathematical Models: Linear and Inverse Variation			1st Nine Weeks	29-32 days (includes assessments)							
	Investigation 2	Linear Models and Equations				8.EE.5, 8.EE.7, 8.EE.7b, 8.EE.8, 8.EE.8a, 8.EE.8c, 8.F.1, 8.F.2, 8.F.3, 8.F.4, 8.F.5, 8.SP.1, 8.SP.2, 8.SP.3	7,9,9b,10,10a,10c, 11,12,13,14, 15,25,26,27				
	2.2	Up and Down the Staircase: Exploring Slope									
	2.3	Tree Top Fun: Equations for Linear Functions									
	2.4	Boat Rental Business: Solving Linear Equations									
		Amusement Park or Movies: Intersecting Linear Models									
	2.5										
	Investigation 3	Inverse Variation									
	3.1	Rectangles W/ Fixed Area					8.EE.5, 8.F.1, 8.F.3, 8.F.5, 8.SP.1	7,11,13,15,25			
	3.2	Distance, Speed and Time									
	3.3	Planning a Field Trip: Finding Individual Cost									
	Investigation 4	Variability and Associations in Numeric Data									
	4.1	Vitruvian Man: Relating Body Measurements				8.F.1, 8.F.3, 8.F.4, 8.F.5, 8.SP.1, 8.SP.2, 8.SP.3	11,13,14,15, 25,26,27				
	4.2	Older and Faster: Negative Correlations									
	4.3	Correlations Coefficients and Outliers									
	Investigation 5	Variability and Associations in Categorical Data									
	5.1	Wood or Steel? That's the Question				8.SP.4	28				
		Politics of Girls and Boys: Analyzing Data in Two-Way Tables									
	5.2										
Looking for Pythagoras: The Pythagorean Theorem			2nd Nine Weeks	39-42 days (including assessments)							
	Investigation 1	Coordinate Grids									
		Driving Around Euclid: Locating Points and Finding Distances					8.G.8	23			
	1.1	Planning Parks: Shapes on a Coordinate Grid									
	1.2	Finding Areas									
	1.3										
	Investigation 2	Squaring Off									
	2.1	Looking for Squares					8.EE.2, 8.NS.2	4,2			
	2.2	Square Roots									
	2.3	Using Squares to Find Lengths									
	2.4	Cube Roots									
	Investigations 3 & 5	The Pythagorean Theorem/Using the Pythagorean Theorem:Analyzing Triangles and Circles									
	3.1	Discovering the Pythagorean Theorem				8.G.4, 8.G.6, 8.G.7, 8.G.8	19,21,22,23				
	3.2	A Proof of the Pythagorean Theorem									
	3.3	Finding Distances									
	3.4	Measuring the Egyptian Way: Lengths That Form a Right Triangle									
	5.1	Stopping Sneaky Sally: Finding Unknown Side Lengths									
	Investigation 4	Using the Pythagorean Theorem: Understanding Real Numbers									
		Analyzing the Wheel of Theodorus: Square Roots on a Number Line				8.EE.2, 8.G.7, 8.NS.1, 8.NS.2	4,22,1,2				
	4.1										
	4.2	Representing Fractions as Decimals									
	4.3	Representing Decimals as Fractions									
	4.4	Getting Real: Irrational Numbers									
Growing, Growing, Growing: Exponential Functions					s (including assessments)						
	Investigation 1	Exponential Growth									
		Making Ballots: Introducing Exponential Functions						8.EE.3, 8.F.1, 8.F.3, 8.F.4, 8.F.5	5,11,13,14,15		
	1.1	Requesting a Reward: Representing Exponential Functions									
	1.2	Exponential Functions									
	1.3	Making a New Offer: Growth Factors									
	Investigation 4	Exponential Decay			8.F.1, 8.F.2, 8.F.3						

	4.1	Making Smaller Ballots: Introducing Exponential Decay				8.EE.1, 8.EE.2, 8.EE.3, 8.EE.4, 8.F.5	11,12,15		
	Investigation 5	Patterns With Exponents							
	5.1	Looking for Patterns Among Exponents							
	5.2	Rules of Exponents							
	5.3	Extending the Rules of Exponents							
Butterflies, Pinwheels, and Wallpaper: Symmetry and Transformations									
	Investigation 1	Symmetry and Transformations							
	1.1	Butterfly Symmetry: Line Reflections							
	1.2	In a Spin: Rotations							
	1.3	Sliding Around: Translations							
	1.4	Properties of Transformations							
	Investigation 3	Transforming Coordinates							
	3.1	Flipping on a Grid: Coordinate Rules for Reflections							
	3.2	Sliding on a Grid: Coordinate Rules for Translations							
	3.3	Spinning on a Grid: Coordinate Rules for Rotations							
	3.5	Parallel Lines, Transversals, and Angle Sums							
	Investigation 2	Transformations and Congruence							
	2.1	Connecting Congruent Polygons							
	2.2	Supporting the World: Congruent Triangles I							
	2.3	Minimum Measurement: Congruent Triangles II							
	Investigation 4	Dilations and Similar Figures							
	4.1	Focus on Dilations							
		Return of Super Sleuth: Similarity							
	4.2	Transformations							
	4.3	Checking Similarity Without Transformations							
	4.4	Using Similar Triangles							
Say It With Symbols: Making Sense of Symbols: Making Sense of Symbols									
	Investigation 1	Making Sense of Symbols: Equivalent Expressions							
	1.1	Tiling Pools: Writing Equivalent Expressions							
	1.2	Thinking in Different Ways: Determining Equivalence							
	1.3	The Community Pool Problem: Interpreting Expressions							
	1.4	Diving In: Revisiting the Distributive Property							
	Investigation 2	Combining Expressions							
	2.3	Making Candles: Volumes of Cylinders, Cones, and Spheres							
	2.4	Selling Ice Cream: Solving Volume Problems							
	Investigation 3	Solving Equations							
	3.1	Selling Greeting Cards: Solving Linear Equations							
	3.2	Comparing Costs: Solving More Linear Equations							
It's in the System: Systems of Linear Equations and Inequalities									
	Investigation 1	Linear Equations With Two Variables							
	1.1	Shirts and Caps: Solving Equations With Two Variables							
	1.2	Conncting $Ax + By = C$ and $y = mx + b$							
	1.3	Booster Club Members: Intersecting Lines							
	Investigation 3	Systems of Functions and Inequalities							
	3.1	Comparing Security Services: Linear Inequalities							
	3.2	Solving Linear Inequalities Symbolically							
Major Cluster (Critical Focus)									
Supporting Cluster									

Additional Cluster						
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