5TH GRADE MATH CURRICULUM MAP 4th QUARTER- 45 DAYS

Days	Standard	practices	explanation	resources
	5.OA.B.3. Generate two numerical	5.MP.2. Reason abstractly and	• Use the rule "add 3" to write a sequence of numbers.	Engage Ny 7-12 18-
	patterns using two given rules.	quantitatively.	Starting with a 0, students write 0, 3, 6, 9, 12,	20 envisions
	Identify apparent relationships	5.MP.7. Look for and make use of	• Use the rule "add 6" to write a sequence of numbers.	topic 8 galileo
	between corresponding terms. Form	structure	Starting with 0, students write 0, 6, 12, 18, 24,	
	ordered pairs consisting of		After comparing these two sequences, the students	
	corresponding terms from the two		notice that each term in the second sequence is twice	
	patterns, and graph the ordered pairs		the corresponding terms of the first sequence. One	
	on a coordinate plane. For example,		way they justify this is by describing the patterns of the	
	given the rule "Add 3" and the		terms. Their justification may include some	
	starting number 0, and given the rule		mathematical notation (See example below). A student	
	"Add 6" and the starting number 0,		may explain that both sequences start with zero and to	
	generate terms in the resulting		generate each term of the second sequence he/she	
5 days	sequences, and observe that the		added 6, which is twice as much as was added to	
	terms in one sequence are twice the		produce the terms in the first sequence. Students may	
	corresponding terms in the other		also use the distributive property to describe the	
	sequence. Explain informally why this		relationship between the two numerical patterns by	
	is so		reasoning that 6 + 6 + 6 = 2 (3 + 3 + 3).	
			0 0, +3 3, +3 6, +3 9, +312,	
			o 0, +6 6, +6 12, +618, +6 24,	
			Once students can describe that the second sequence	
			of numbers is twice the corresponding terms of the	
			first sequence, the terms can be written in ordered	
			pairs and then graphed on a coordinate grid. They	
			should recognize that each point on the graph	
			represents two quantities in which the second quantity	

4 days	number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates	5.MP.7. Look for and make use of structure.	• Students can use a classroom size coordinate system to physically locate the coordinate point (5, 3) by starting at the origin point (0,0), walking 5 units along the x axis to find the first number in the pair (5), and then walking up 3 units for the second number in the pair (3). The ordered pair names a point in the plane.	Engagae Ny 1-17 envisions Topic 16
	coordinates. Understand that the			
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4 days				
	correspond (e.g., x-axis and x-			
	coordinate, y-axis and y-coordinate).			

4 days	5.G.A.2. Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.	 5.MP.1. Make sense of problems and persevere in solving them. 5.MP.2. Reason abstractly and quantitatively. 5.MP.4. Model with mathematics. 5.MP.5. Use appropriate tools strategically. 5.MP.6. Attend to precision. 5.MP.7. Look for and make use of structure. 	works.	engage NY 13-20 envisions Topic 16 galileo
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5 days	5.G.B.3. Understand that attributes belonging to a category of two- dimensional figures also belong to all subcategories of that category. For example, all rectangles have four right angles and squares are rectangles, so all squares have four right angles.	5.MP.2. Reason abstractly and quantitatively. 5.MP.6. Attend to precision. 5.MP.7. Look for and make use of structure.	Geometric properties include properties of sides (parallel, perpendicular, congruent), properties of angles (type, measurement, congruent), and properties of symmetry (point and line). Example: • If the opposite sides on a parallelogram are parallel and congruent, then rectangles are parallelograms • A sample of questions that might be posed to students include: o A parallelogram has 4 sides with both sets of opposite sides parallel. What types of quadrilaterals are parallelograms? o Regular polygons have all of their sides and angles congruent. Name or draw some regular polygons. o All rectangles have 4 right angles. Squares have 4 right angles so they are also rectangles. True or False? o A trapezoid has 2 sides parallel so it must be a parallelogram. True or False? Technology Connections: http://illuminations.nctm.org/ActivityDetail.aspx?ID=7 0	Engage Ny 16-21 envisions Topic 15 galileo

	5.G.B.4. Classify two-dimensional	5.MP.2. Reason abstractly and	Properties of figure may include:	Engage Ny 16-21
	figures in a hierarchy based on	quantitatively.	 Properties of sides—parallel, perpendicular, 	envisions Topic 15
	properties.	5.MP.3. Construct viable	congruent, number of sides	galileo
		arguments and critique the	 Properties of angles—types of angles, congruent 	
		reasoning of others.	Examples:	
		5.MP.5. Use appropriate tools	• A right triangle can be both scalene and isosceles, but	
		strategically.	not equilateral.	
		5.MP.6. Attend to precision.	• A scalene triangle can be right, acute and obtuse.	
		5.MP.7. Look for and make use of	 Triangles can be classified by: 	
		structure.	Angles	
			o Right: The triangle has one angle that measures 90°.	
			o Acute: The triangle has exactly three angles that	
5 days			measure between 0 ^o and 90 ^o .	
			o Obtuse: The triangle has exactly one angle that	
			measures greater than 90° and less than 180°.	
			Sides	
			o Equilateral: All sides of the triangle are the same	
			length.	
			o Isosceles: At least two sides of the triangle are the	
			same length.	
			o Scalene: No sides of the triangle are the same length.	