Fourth Grade Compacted Mathematics Newsletter

Marking Period 4, Part 2

MT	Learning Goals by Measurement Topic (MT) Students will be able to			
Numbers and Operations- Fractions	 use equivalent fractions as a strategy to add and subtract fractions with unlike denominators. solve word problems involving addition and subtraction of fractions with unlike denominators. apply understanding of factors and multiples to generate equivalent fractions and add fractions with unlike denominators. use equivalent fractions and decomposing (breaking apart) to solve problems. 			
Geometry	 graph and label ordered pairs on a coordinate grid. classify two-dimensional shapes as polygons (a closed plane figure composed of only straight sides) or non-polygons. classify, identify, and draw quadrilaterals and other polygons based on their properties. 			
Operations and Algebraic Thinking	 create and analyze two numerical patterns using two given rules. create two numerical patterns and graph the corresponding ordered pairs. 			

Thinking and Academic Success Skills (TASS)					
	<u>It is</u>	In mathematics, students will			
Flexibility	being open and responsive to new and diverse ideas and strategies and moving freely among them.	make the connection that knowledge of equivalent fractions helps adding and subtracting fractions with unlike denominators easier. use a variety of methods to add and subtract fractions with unlike denominators.			
Intellectual Risk Taking	accepting uncertainty or challenging the norm to reach a goal.	 generate multiple ways to find solutions to word problems. make adjustments to thinking when problem solving. recognize that mistakes can help one learn. skillful students ask for help and feedback. it is okay to not understand everything the first time around. everyone is capable of high achievement. 			

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Learning Experiences by Measurement Topic (MT)					
MT	In school, your child will	At home, your child can			
Number and Operations - Fractions	 use pattern blocks and other visual fraction models to represent equivalent fractions as a strategy to add and subtract fractions with unlike denominators. 	create equivalent fractions to solve real-world problems involving adding and subtracting fractions with unlike denominators . (Look through recipes and add the fractional amounts.)			
	use benchmark fractions to estimate the answer to addition and subtraction of fractions with unlike denominators.	Example: A recipe calls for $\frac{3}{4}$ cup of sugar and $\frac{1}{2}$ cup of flour. How many cups were used altogether?			
	 Example: ⁷/₈ + ⁵/₆ is less than 2 because each fraction is less than the benchmark of 1 whole. create number line representations to add and subtract fractions with unlike denominators. 	Possible questions: What strategy is most efficient in helping to solve the problem? How can using a benchmark fraction help to estimate the solution? Synthesize by asking, "Is there anything you have learned about adding and subtracting whole numbers that may help you add and subtract fractions?" 			
Geometry	 graph and label ordered pairs on a coordinate grid. A= (2,7) (x, y) classify, describe, explain, and draw polygons including quadrilaterals based on their properties. 	 design a unique game using a coordinate grid similar to Battleship, Tic Tac Toe, or Connect Four. develop a scavenger hunt to search around the home, neighborhood, or natural surroundings for examples of concave and convex polygons. 			
Operations and Algebraic Thinking	create and analyze two numerical patterns given two rules.	create a rule to represent a numerical pattern. <u>Example:</u> At the beginning of the week you were on chapter 12. You read 2 chapters each night. What chapter will you be on in 5 days?			

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