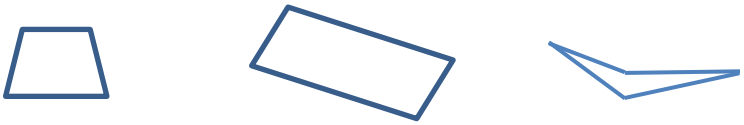
Fifth Grade Mathematics Newsletter

Marking Period 4, Part 2

MT	Learning Goals by Measurement Topic (MT) Students will be able to . . .
Geometry	• graph and label ordered pairs on a coordinate grid. • use ordered pairs to solve problems. • classify two-dimensional shapes as polygons (a closed plane figure composed of only straight sides) or non-polygons. • classify, identify, and draw polygons based on their properties. • classify, describe, explain, and draw quadrilaterals (four-sided 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. Rule: Start at 3, add 5: 3, 8, 13, 18, 23, … Rule: Start at 4, add 5: 4, 9, 14, 19, 24, …

Thinking and Academic Success Skills (TASS)		
	It is . . .	In mathematics, students will . . .
Evaluation	weighing evidence, examining claims, and questioning facts to make judgments based on criteria.	• justify the location of ordered pairs on a grid. • determine whether the given rule in a numerical pattern is logical. • question the properties of polygons and non-polygons.
Effort/Motivation/ Persistence	working diligently and applying effective strategies to achieve a goal or solve a problem; continuing in the face of obstacles and competing pressures.	• seek effective strategies to graph ordered pairs. • identify and demonstrate a plan to create patterns to graph. • self-check the sides and angles of polygons when classifying. • be challenged to compose polygons to create different polygons and develop an understanding of how geometric properties can change.

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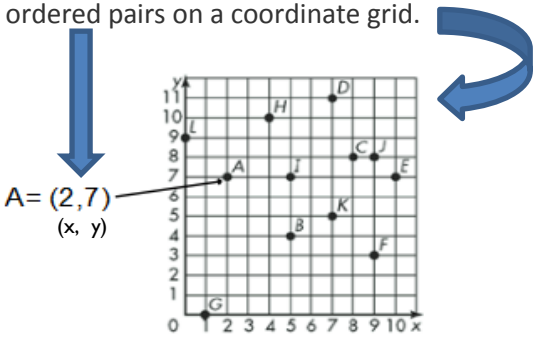
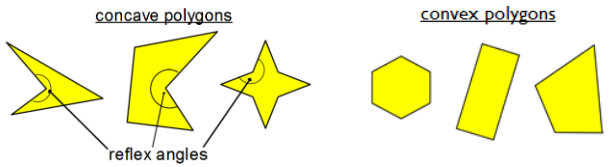
Learning Experiences by Measurement Topic (MT)

MT	In school, your child will . . .	At home, your child can . . .
Geometry	• graph and label ordered pairs on a coordinate grid.  • classify, describe, explain, and draw polygons including quadrilaterals based on their properties. Example: A square:  ○ is equiangular (all angles are equal) ○ is equilateral (all sides are equal) ○ has 2 sets of parallel lines ○ has more than one line of symmetry ○ no reflex angle (an angle between 180° and 360°) ○ is a convex polygon (no reflex angle)	• design a unique game using a coordinate grid similar to Battleship, Tic Tac Toe, or Connect Four. Websites to support graphing ordered pairs: http://www.mathnook.com/math/skill/coordinategridgames.php http://www.mathwire.com/templates/coordgrid10.pdf (printable grid paper) • develop a scavenger hunt to search around the home, neighborhood, or natural surroundings for examples of concave and convex polygons.  • craft a picture, such as a landscape, using only polygons and evaluate whether or not the landscape could be decomposed into fewer polygons. For example, could a quadrilateral have been used instead of two triangles?
Operations and Algebraic Thinking	• create and analyze two numerical patterns given two rules. Rule A: Start with 32. Add 3 Rule B: Start with 55. Add 3	• create a rule to represent a numerical pattern. Example: 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? Websites to support learning (function tables): http://www.mathplayground.com/functionmachine.html

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