Grade 4 – Unit 5

Our class is beginning Unit 5: Geometry and Measurement. This unit focuses on understanding of angles and classifying polygons. Students will identify angles as acute, right, or obtuse angles and correctly measure and draw angles using a protractor. Students will review 2 dimensional polygons and will be able to describe, classify, and sort these polygons based on their attributes. Students will be introduced to many geometrical terms such as intersecting, ray, perpendicular, similar, congruent, equilateral, isosceles, and several others. Students will use these terms to define and sort polygons.

Some examples of the work your child will be doing are:

* Students will identify an angle as acute (smaller than 90˚), right (90˚) or obtuse (greater than 90˚ but less than 180˚) and straight (180˚)
* Students will define angle type and measure the angle with a protractor.
* Example:

Name the type of angle\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Angle measurement \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Students will define and identify geometry terms including ray, line segment, line, angle, perpendicular, parallel, intersecting lines, complementary and supplementary angles, opposite and adjacent angles. Students will use these terms to describe polygons.
* Students will identify, describe, and sort polygons including equilateral, isosceles, and scalene triangles, quadrilaterals, pentagons, hexagons, octagons, and circles.
* Students will understand symmetry as well as congruent and similar figures.

Here is how you can help your child while our class is working on this unit:

* Practice multiplication and division facts.
* There is a good deal of vocabulary in this unit. It may be helpful to review terms your child has learned. A great resource for reviewing geometry terms is http://www.amathsdictionaryforkids.com/
* Help your child to classify polygons. For instance, how are all quadrilaterals the same? What is the difference between a square and a rectangle? Which quadrilaterals are also parallelograms? Encourage your child to use vocabulary such as parallel lines, perpendicular lines, right angles, acute angles and others when classifying polygons.
* Reinforce strategies that help your child think flexibly about numbers. Encourage them to think about how to compose, decompose, and group numbers to find efficient ways to solve problems.
* Encourage your child to explain her/his thinking as he/she solves problems.

If you have any questions, please contact your child’s teacher or the Math Science Teacher.

For additional information, take a look at the Fairfield Public School Parent Guide at <http://fairfieldpublicschoolsk5math.wikispaces.com/home>