Grade 2 – Unit 6

We are beginning Unit 6: Reasoning with Shapes. Students will identify, describe, and draw regular and irregular plane shapes (triangles, quadrilaterals, pentagons, hexagons). They will identify and describe solid figures (cubes, sphere, pyramid, rectangular prisms) using appropriate vocabulary (vertex/vertices, flat surfaces/faces, and edges) and will explore the relationship between plane shapes and solid figures. Students will also investigate how shapes can be composed and decomposed into other shapes. They will also explore fractions as equal parts of a whole using a variety of shapes (circles, squares, rectangles, and triangles).

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

* Students will name the sides and angles on a plane shape and combine shapes to make a new shape.
* Example: Using pattern blocks, show how many ways you can make a trapezoid.
* Example: What shape can be made using a trapezoid and a triangle? (a larger triangle)

* Students will name the plane shapes (triangles, squares, rectangles, circles) that compose solid figures. The 2 dimensional pattern that can be folded into a solid is called a *net.*
* Example: a cube is composed of 6 squares
* Students will count the number of edges, surfaces/faces, and vertices of

3-dimensional solid figures.

* Example: A cube has 6 faces, 12 edges, and 8 vertices.
* Students will divide different shapes into halves, fourths, thirds, sixths, and eighths.
* Students will understand fractional amounts using fractional tools as a reference.
* Example: If 4 people equally share a pizza, how much of the pizza will each person get?

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

* Point out equal parts in the real world eg. a measuring cup is used in cooking.
* Ask your child to name fractions: *What fraction of the pizza was eaten? What fraction of the pizza is left? What fraction of our family are girls? What fraction of our family goes to school?*
* Encourage your child to explain her/his thinking as she/he 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>