

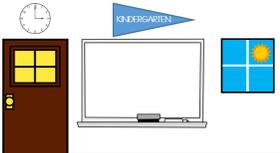
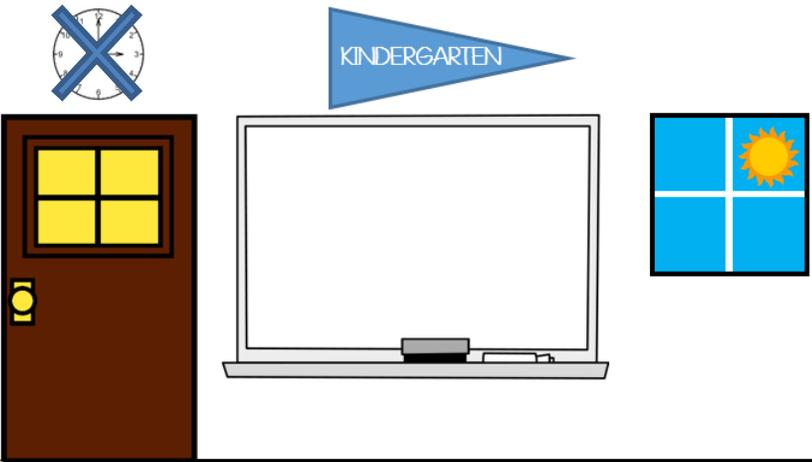
Kindergarten Important Math Information



2-D Geometry

Dear Family,

We are beginning a new unit of study in mathematics called *2-D Geometry*. This unit of study focuses on two-dimensional shapes. Your student will identify, describe, build, and draw 2-D shapes. Your student will also use geometric language such as: *circle*, *hexagon*, *rectangle*, *rhombus*, *square*, *trapezoid*, and *triangle*. Your student will describe the location of shapes in his/her environment using positional words such as: *above*, *behind*, *below*, *beside*, *in front of*, and *next to*. The specific learning goals your student will be working toward are listed below with examples of student work showing understanding of each learning goal.

Learning Goal: Identify, name, and describe 2-D shapes.	
Example Problem	Example Student Solution
<p>What is the name of the shape above the door?</p> <p>Describe the shape above the door.</p> <p>Put an X on the shape that is above the door.</p> 	<p><i>"The shape above the door is a circle. It has no vertices and no straight sides. It is round."</i></p> 

Learning Goal: Build and draw 2-D shapes and put 2-D shapes together to form larger 2-D shapes.

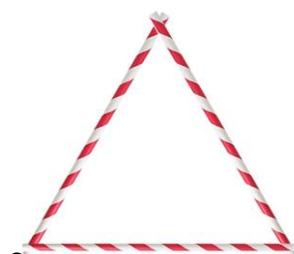
Example Problems

Example Student Solutions

Build a triangle using the straws.



Draw a triangle.

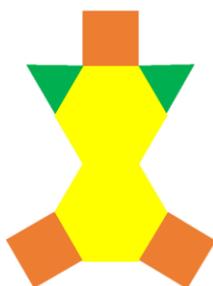
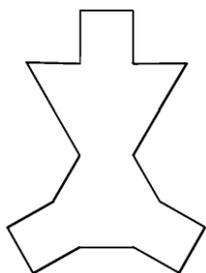


"I know that triangles have three sides and three vertices. Triangles are closed shapes. I put three straws together with each side touching to build a triangle."

"I drew a closed shape that has three straight sides and three vertices. It is a triangle."



Fill this shape with smaller shapes.



"I used different shapes to fill the picture. I used 2 triangles, 2 hexagons, and 3 squares."

Mathematical Thinking and Practices Learning Goal: Understand problems and solve them using strategies without giving up.



Things you can do at home to support your student throughout this unit of study:

Shapes Around Us:

- Shapes can be found all around us. Ask your student about shapes that they see in their home. Have your student name and describe the shapes.



Build a Shape

- Making shapes is a great way to learn about them. Use clay, drinking straws, toothpicks, or string to make different shapes. Have your student name and describe the shapes they make.