



# Kindergarten Unit 2

## Sophisticated Shapes

Volume 1 Issue 2

### References

#### Helpful Links:

<http://www.primarygames.com/science/spacestation/index.htm>

[http://www.kidport.com/gradeK/Math/MeasureGeo/MathK\\_Shapes.htm](http://www.kidport.com/gradeK/Math/MeasureGeo/MathK_Shapes.htm)

<http://games.disney.com/>

### Dear Parents

Welcome to the new school year! We are eager to work with you and your students as we learn new mathematical concepts. The State of Georgia is using Mathematics Georgia Standards of Excellence (MGSE) that call for students to be actively engaged in the learning process. During this student's learning focus will be 2D and 3D figures.

### Concepts Students will Use and Understand

- Recognize, name, build, draw, compare, and sort simple two- and three-dimensional shapes
- Describe attributes and parts of two- and three-dimensional shapes,
- Group objects according to common properties
- Investigate and predict the results of putting together and taking apart simple two- and three-dimensional shapes
- Describe, name, and interpret relative positions in space and apply ideas about relative position

### Vocabulary

- Triangle: a polygon with three sides
- Rectangle: a parallelogram with four angles
- Squares: a rectangle with four equal sides
- Circle: the set of all points in a plane that are the same distance from a fixed point
- Hexagon: a closed figure with six straight sides
- Cylinder: an object shaped like a tube or pole
- Cone: an object that has a flat, round base and narrows to a point at the top
- Sphere: a solid round object like a ball
- Cube: a solid figure with six square faces

### Example 1

#### Georgia Math Grade K Textbook

#### Connection:

Ch. 1, Lessons 1-5

Ch. 2, Lessons 1-6



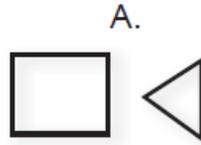
#### Textbook Online:

[connected.mcgraw-hill.com](http://connected.mcgraw-hill.com)

What shapes are needed to make this house?

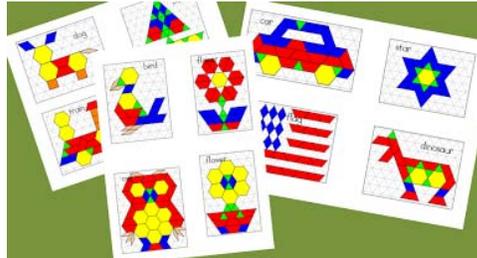
Ask your teacher for the online passcode

### Example 2



What shapes were used to make the house?

### Example 3



## Home Activities

<p>Ask your child to put things into groups. When you do the laundry, let your child separate items of clothing: all the socks in one pile, all the shirts in another pile, and all the pants in another pile.</p>	<p>Take your child on a geometry hunt. Begin by locating plane shapes in and around your home. Then move to solid figures. Be sure to point out the difference between a plane shape and a solid. For example, a door has a face of a rectangle but it is a rectangular prism made up of many plane (flat or 2 dimensional) shapes.</p>
<p>Draw a picture with your child; discuss how a circle is used to draw a head, a rectangle or square is used to draw a body, 4 rectangles are used to draw arms and legs.</p>	<p>Play the game "Positions." Call out a position such as beside, below, in front of, behind, inside, and outside. Have your child move their favorite stuffed animal into these positions.</p>
<ul style="list-style-type: none"> <li>• Help your child learn various words to compare objects she sees in her world. For example, when she sees two dogs, it could be one is taller, and one shorter.</li> <li>• Locate different shapes outside, e.g. the window pane of a house is a square, the sun is a sphere.</li> <li>• Correctly find and name the shape of objects throughout the grocery store and in her surroundings, e.g. ice cream cones have cones.</li> <li>• Compose simple shapes to form larger shapes. For example, "Can you join these two triangles with full sides touching to make a rectangle?"</li> </ul>	