

Roll on Down

Objective: The students will describe and compare the attributes of three dimensional geometric solids.

Materials: Geometric Solids (Cone, cylinder, sphere, cube, Hemisphere, rectangular prism, hexagonal prism, and square pyramid)

Piece of wood for a ramp

3 big books to use as 'lifts' for the ramp

Recording Sheet

Groupings: 2 to 4 students, working together or in pairs

Preparing the Center: Set up ramp and display geometric solids at center. Make copies of the recording for the students.

Using the Center: Have the students handle the solids and determine the attributes of each solid. After allowing students to handle the objects, the students will then determine if the object will roll, slide, or do both down the ramp. Students will release the solid down the ramp and observe the results. There may be some discussions in the groups about the need for more than 1 trial for each solid. Students will complete the remainder of the chart based on actual results. Students answer the questions concerning the center, and complete the Venn diagram.

Object	Prediction			Actual		
	Roll	Slide	Roll & slide	Roll	Slide	Roll & Slide
Cube						
Cylinder						
Square Pyramid						
Hexagonal Prism						
Sphere						
Cone						
Rectangular Prism						
Hemisphere						

What are some things you observed about the solids?

How is a cube different from a sphere?

How is a cylinder different from a cone? How are they alike?

What was similar in all the objects that rolled?

What was similar in all the objects that slid?