## TEKS for Mathematics "Rapid" Assessment: Grade 2

2(8) Geometry and measurement. The student applies mathematical process standards to analyze attributes of twodimensional shapes and three-dimensional solids to develop generalizations about their properties.

2(8)(B) The student is expected to classify and sort three-dimensional solids including spheres, cones, cylinders, rectangular prisms (including cubes as special rectangular prisms), and triangular prisms, based on attributes using formal geometric language.

## Materials

- Three-dimensional solids


## Procedure:

Place solids on table. Ask the question(s) below based on the three-dimensional solids displayed.

1. Find the solid that has zero vertices and zero edges. What is the name of this solid?
2. A polyhedron is a solid that has all polygon faces. Which solids would belong in this group? Identify and describe the solids that are NOT in this group.
3. Sort the solids according to their attributes. Describe how you sorted the solids.

## Check Student's Responses:

1. The student identified the sphere:
$\square$ Correct
$\square$ Incorrect
2. The student identified the polyhedrons:
$\square$ Correct $\square$ Incorrect
3. The student identified and described the other solids as: $\qquad$
4. The student sorted the shapes by: $\qquad$
$\square$ Correctly sorted the shapes $\quad$ Incorrectly sorted the shapes
5. The student described the group(s) as: $\qquad$

Notes:

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2(8)(B) The student is expected to classify and sort three-dimensional solids including spheres, cones, cylinders, rectangular prisms (including cubes as special rectangular prisms), and triangular prisms, based on attributes using formal geometric language.

## What did you observe?

- The student classified and/or sorted the solids correctly. It might be beneficial to see if this student is able to classify solids using other geometric language by asking questions such as, "Which of these solids are prisms?"
- The student incorrectly classified and/or sorted the solids. The student may need additional support in understanding vocabulary such as vertices, faces, edges, and a reminder of a definition of a polygon.

A teaching strategy might include reviewing vocabulary followed by additional activities such as:

- Providing opportunities for the student to identify solids based on formal language such as:
- Find all of the solids with 8 vertices.
- Find all of the solids with a curved surface.
- Prompt the student to draw a square. Explain that a square is a polygon with four equal sides. Prompt the student to determine which solid has only square faces (a cube). Next, prompt the student to find another solid they think might be a polyhedron. Prompt the student to describe each of the faces of the solid and determine whether or not each face of the solid is a polygon. Assist the student in identifying the solid if necessary.

