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ACTIVITY # 2

I Spy Peg

Children will go on a scavenger hunt to search for real-world objects that represent 2D and 3D shapes.

LEARNING GOALS

- Learn the names of four 3D shapes: sphere, pyramid, cube, and rectangular prism
- Investigate the attributes of these 3D shapes

ITEMS NEEDED

- A box with equal sides, or a ball
- "I Spy Peg" printable scorecards: one for the class to share, OR one per child/per pair of children
- The paper Peg dolls constructed in the previous activity (optional)

GET READY

With your group, view video clips from *The Golden Pyramid Problem* and *The Sparkling Sphere Problem* at pbskids.org/learn. Ask the children to pay special attention to the shapes they see in the episode.

The activity works best if each child has completed the previous activity and constructed a paper Peg doll.

HAVE FUN!

1. Have each child hold up his or her paper Peg doll. Together, review the shapes that make Peg. Ask, "What shape is Peg's head?" Or say, "I'm thinking of a part of Peg that is round. Which part of Peg am I thinking of?"
2. Explain to the group that the shapes in their paper Peg dolls are flat, but that shapes can also be **three-dimensional**. Give an example: "This ball is

round and has no sides, like a circle. But, a circle is flat and this ball is not flat. It is a solid shape or three dimensional. It is called a **sphere**." Or, you can use your finger to outline the face of the box and explain: "Here are four corners and four equal sides, like a square. But this box is three dimensional, not flat. It is called a **cube**." Continue by discussing a **triangle/pyramid** and a **rectangle/rectangular prism**.

(continued)



All video clips, games, and activities in this resource can be found at pbskids.org/learn



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I Spy Peg

(continued)

HAVE FUN! (cont.)

3. Ask, "Did you know that flat and solid shapes are all around us?" Give some examples. Hold up a piece of paper and ask children, "What shape is this?" Point to a clock and ask, "What shape is this?" Ask, "What other shapes do you see?"
4. Now say, "We are going to be shape hunters. We are going to hunt inside and outside for things in the real world that have the same shapes as those that make up Peg!"
5. Move around the room or venture outside and keep hunting for Peg's shapes in 2D, 3D, or both. Kids can work individually, in pairs, or as one larger group. Mark the shapes on the scorecard as they are found. Children might find a triangle in a rooftop, a rectangle in a window, or a sphere in a soccer ball. Investigate each shape that you discover. Don't stop until you've found all of Peg's shapes.

PROBLEM SOLVED!

When all the shapes have been found, sing the "**Problem Solved**" song!

♪ *Problem solved! The problem is solved!
We solved the problem! Problem solved!*



ANOTHER FUN IDEA

Bring in found objects like cereal boxes and paper towel rolls. Work together to create a 3D Peg. As you work, name and describe the shapes that you are using.

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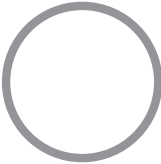







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“I Spy Peg” Scorecard Handout

2D: Circle 3D: Sphere	2D: Oval	2D: Semi-circle
		

2D: Square 3D: Cube	2D: Rectangle 3D: Rectangular Prism	2D: Triangle 3D: Pyramid
		



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