2.36 Introducing 3D shapes

Topic: Shapes Subtopic: 3D shapes Activity type/skill: Orientation Literacy focus: Vocabulary

Objective

- Provide orientation to the subtopic.
- Make links to prior knowledge.
- Link to the mathematics curriculum.
- Introduce technical vocabulary.
- Present target vocabulary in context.

What you need

- Student worksheet (see next page)
- Audio track 2.36

What to do

- 1. Look at the first page of the student worksheet. Talk about the shapes to draw out students' existing knowledge of:
 - names of the shapes explain that these are technical words that they need for maths
 - shapes in the classroom
 - shapes in the community.
- 2. Play track 2.36 (Track 16 for this topic). Have students listen, look at the pictures and read the descriptions.
- 3. Look at the second page of the student worksheet. Have students look at the pictures of common objects and write the name of the three-dimensional shape each object is like on the line underneath, for example, they write the word 'cone' under the picture of the ice cream.
- 4. Look at the third page of the student worksheet and used the numbered photographs to play I Spy. You start with a description of one picture, for example: 'I spy a picture. It has a cube. The cube has a small square on each side.' The first person to call out the number of the picture correctly then takes a turn. Encourage students to say two or three sentences about the shapes. If a person calls out the wrong number, they are out of the game. Continue until there is a winner and award a prize. A variation is to have the first person to call out correctly add another sentence about the picture before they take a turn.

Answers: cone sphere pyramid rectangular prism cube cylinder triangular prism

Extending the activity

- Play I Spy in the classroom or outside where there is a range of objects of different shapes. Have students write lists of the objects they spied and the names of the shapes they look like.
- Read 'Finding Shapes in Buildings' by Clare Bowes, *Connected* 1, 2002.

Activity thirty-six



Track 16

Describing three-dimensional shapes

Three-dimensional shapes are solid shapes. You can measure how long they are, how wide they are and how high they are. They have the three dimensions: length, width and height. Three-dimensional shapes have surfaces. These surfaces can be flat or curved. Some three-dimensional shapes have only flat surfaces. A sphere has only a curved surface. Other three-dimensional shapes have a mixture of flat and curved surfaces. The flat surfaces of three-dimensional shapes are called faces.





Play "] Spy"

Write the things you "spied" and their shapes

Activity thirty-six











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