

MATHS



Lesson 36

Prep

Topic: Shape

Using shapes and objects

Lesson concepts

-  Shapes — Language (describing, naming, comparing)
-  Shapes — Sorting (appearance, function)

Today students will:

- use shapes and objects to create a picture.

Resources

Find and prepare

String, pipe-cleaners, ice-block sticks, matchsticks, paint, collage materials

Key terms

corner, face, edge, square, circle, triangle, rectangle, sphere, cube

For definitions and explanations of terms, please see the [Glossary](#).

Lesson

Note

It is important to highlight and develop the following vocabulary throughout this lesson.

shape, line, corner, join, curved, straight, turn, rotate, side,
compare, create, describe, face, edge, square, circle,
triangle, rectangle, sphere, cube

Introduce the lesson: Describe shapes

- Ask students to find familiar two-dimensional shapes and three-dimensional objects in their immediate environment.
- Discuss familiar two-dimensional shapes with students.

Focus questions

Q: *What is the name of this shape?*

Q: *How would you describe this shape to a friend who was wearing a blindfold, so that they could recognise the shape you described?*

Create two-dimensional shapes

- Provide students with materials so that they can create various two-dimensional shapes.

Say to students

- Make a triangle from the pipe-cleaners.
- Create a square by using the ice-block sticks.
- Create a rectangle by using the string.
- Make a print picture of circles by dipping this circle shape in the paint.
- Trace around this shape to draw a square.

Focus questions

Q: *How many straight sides does this square have?*

A. Four

Q: *How many corners can you see in the rectangle/the circle?*

A. Four/none

Create pictures using two-dimensional shapes

- Explain to students that they are going to make a robot picture by using two-dimensional shapes.

Focus questions

Q: *What shape could you use for the robot's head?*

A. For example: A circle

Q: *What shape could you use for the robot's body?*

A. For example: A rectangle

- Provide time for the students to create a robot picture from art and craft materials.
- Display the picture and talk about where the robot has:
 - curved and straight lines
 - sides
 - corners
 - shapes.
- If time permits, create a second robot picture. Compare the two robots and describe ways they are similar and ways they are different.