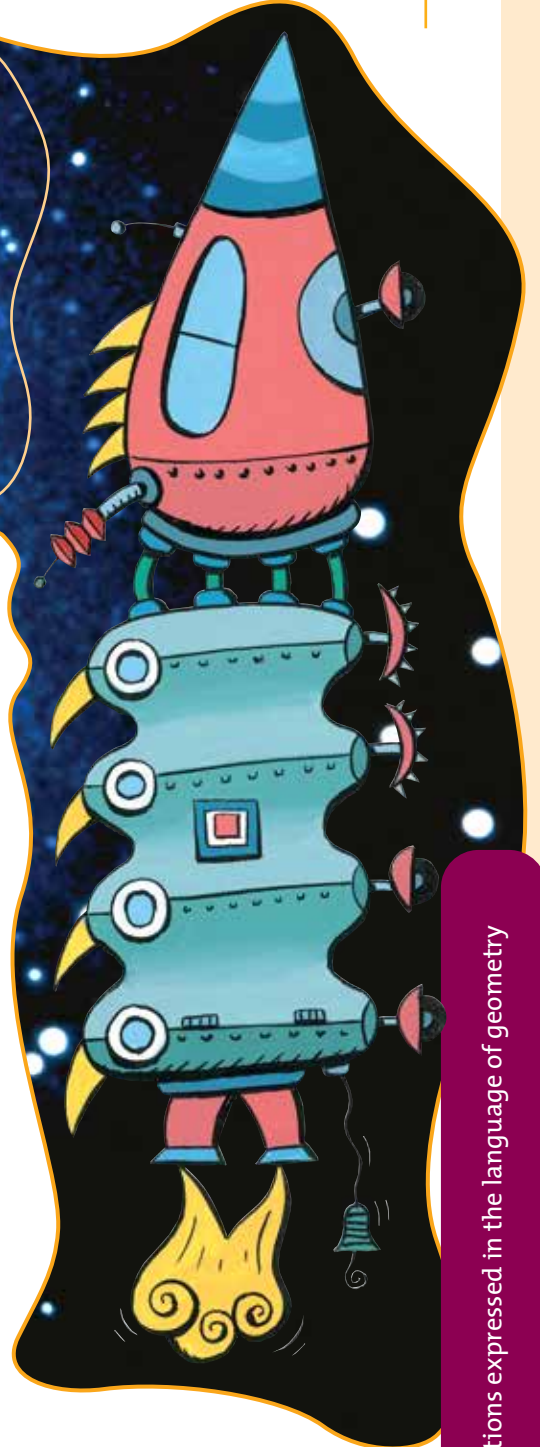


# Alien Action

You need: a drawing compass, a ruler, a protractor, a classmate

## ACTIVITY

A loud buzz came across Room 11's class intercom. "We are friendly travellers from the planet Dodecahedron. We are nearing Earth and will be landing on your playing field in 2 hours. We may look very different from you. Don't be afraid. Here is a description of us so that you will know what to expect ..."



1. Use these instructions to draw an alien face as accurately as possible:
  - i. Draw an equilateral triangle with 10 centimetre sides.
  - ii. From the top vertex, measure and mark a point 2 centimetres down each side.
  - iii. Draw 2 circles with a radius of 1 centimetre on the outside of the triangle, touching these marks.
  - iv. Draw a square inside each circle with the corners touching the circumference.
  - v. Mark the centre of the base of the triangle. Using the base of the triangle as a diameter, draw a semicircle below the triangle.
  - vi. On either side of the centre of the base, draw an equilateral triangle with a side of 2 centimetres.
  - vii. Draw an identical triangle in the centre of the underside of the base, pointing down.
  - viii. Draw a kite, 4.5 centimetres from top vertex to bottom vertex, in the centre of the original equilateral triangle.
2. Compare your drawing with a classmate's. Do they both fit the instructions?
3.
  - a. Draw another alien face made from geometric shapes.
  - b. Write a set of instructions for your drawing.
  - c. Swap instructions with a classmate. Draw your classmate's alien face. Do the instructions work?