Shape and angle investigation and review

MODULE 7 · 2D AND 3D SHAPES AND ANGLES SHAPE & SPACE

HOW TO ANSWER TODAY

- **Parts of a circle.** Centre = middle point. Radius = centre to edge. Diameter = edge through centre to edge. Circumference = the distance round.
  Line from centre to edge → radius All the way round → circumference
- **Name a 2D shape.** Count sides, check which are equal, count right angles, check parallel pairs. Then name it.
  4 equal sides, 0 right angles → rhombus 4 sides, 1 pair parallel → trapezium
- **Name a 3D shape.** Count faces (flat surfaces), edges (where two faces meet), vertices (corners). Match to the shape.
  5 faces, 9 edges, 6 vertices → triangular prism

STRETCH PROBLEMS

1. For the robotics club, Oisín cuts a round wheel with a diameter of **10 cm** for his buggy. What do we call the line from the centre to the edge of the wheel, and how long is it?

2. Cian is painting a shape on the banner for GAA finals day. His shape has **6** equal sides and **6** equal angles. Which 2D shape is Cian painting?

3. Cian is making a party hat for GAA finals day. He cuts out one circle and one curved sector, then folds them together. Which 3D shape does the net fold up into?

4. Cara is building a model of a famous monument for the school project table. Her model has **5** faces, **8** edges and **5** vertices, with **1** square base and **4** triangular faces meeting at one apex. What 3D shape is her model?

5. Cian finds a cereal box in the classroom junk-art pile. He counts **6** faces, **12** edges and **8** vertices, and every face is a rectangle but not all of them are squares. What 3D shape is the box?

SHAPE & SPACE