

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