

Shape and angle investigation and review

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

HOW TO ANSWER TODAY

- **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
- **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

★ STRETCH PROBLEMS

- 1 Cian is painting a new shape on the school yard for a playground game. He draws a shape with **8** equal sides and **8** equal angles. Which 2D shape has he drawn?
- 2 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?
- 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 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?
- 5 Cian draws a circle in his maths copy and marks the centre. He notices that two radii drawn in a straight line through the centre form one _____. What is the missing word?



SHAPE & SPACE