## Properties of Shapes

## Knowledge Organiser

Key Vocabulary	Angle Types		
angle right angle acute obtuse reflex protractor horizontal	Acute Angles Any angle that measures less than 90° is called an acute angle.	Obtuse Angles Any angle that measures greater than 90° and less than 180° is called an obtuse angle.	Reflex Angles Any angle that measures greater than 180° is called a <b>reflex</b> angle.
vertical	Calculating Angles		Angles in a Triangle
parallel perpendicular		74° 224°	
polygon regular irregular	63°	42° 20°	
two-dimensional three-dimensional	Angles on a straight line always total 180°.	Angles around a point always total 360°.	b c
flat face curved surface		123°	a + b + c = 180°
edge vertex	50° 50°	123°	
vertices apex	Opposite angles that share a vertex are equal.		c
radius diameter circumference	$ \frac{\frac{1}{4} \operatorname{turn}}{90^{\circ}} \xrightarrow{\frac{1}{2} \operatorname{turn}} 180^{\circ} \xrightarrow{1}{10^{\circ}} $	$\begin{array}{c} \frac{3}{4} \text{ turn} \\ 270^{\circ} \\ \end{array}$	a b d
twinkl visit twinkl.com	Multiples of 90° can be used	d as descriptions of a turn.	a + b + c + d = 360°

## **Properties of Shapes**

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6 vertices

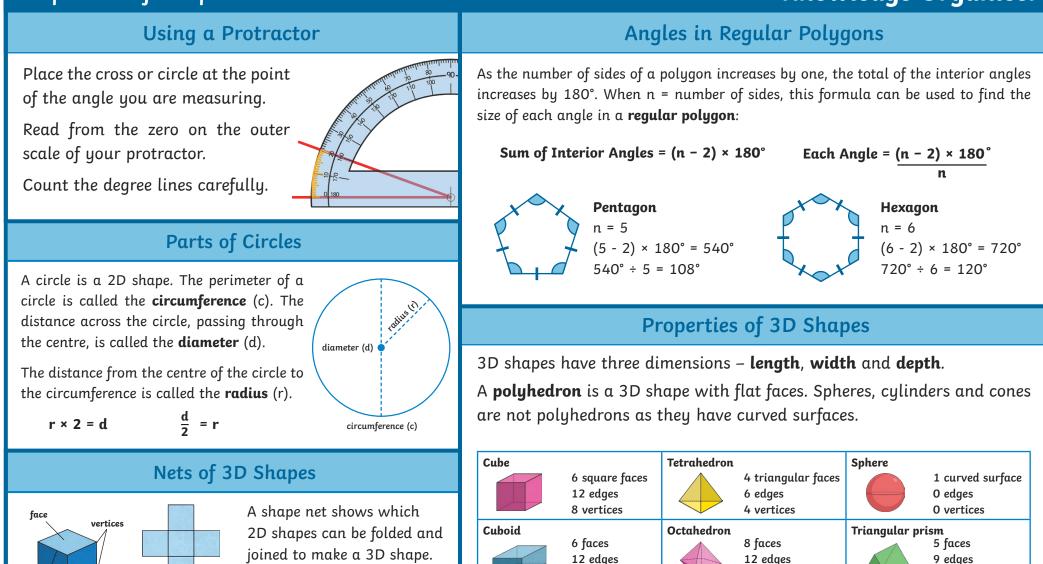
0 vertices

2 circular faces

1 curved surface

2 curved edges

Cylinder



8 vertices

5 faces

8 edges

5 vertices

Cone

Square-based pyramid

6 vertices

1 apex

1 circular face

1 curved edge

1 curved surface

2D shapes can be folded and joined to make a 3D shape. When you are drawing a net, or solving a problem involving a shape net, think carefully about where the edges of the faces meet.