



## What should I already know?

- Identify and describe the properties of common 2D shapes, including the number of sides and line of symmetry in a vertical line.
- Identify and describe the properties of common 3D shapes, including the number of edges, vertices and faces.
- Identify 2D shapes on the surface of 3D shapes e.g., circle on a cylinder.
- Compare and sort common 2D and 3D shapes and everyday objects.

## Key Knowledge

Recognise 3D shapes in different orientations and describe them:

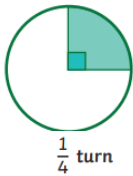
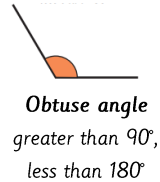
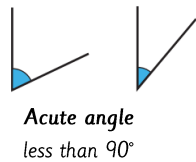
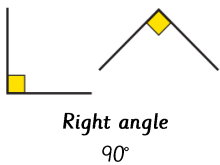


Cylinder, cone, sphere, pyramids, prisms.

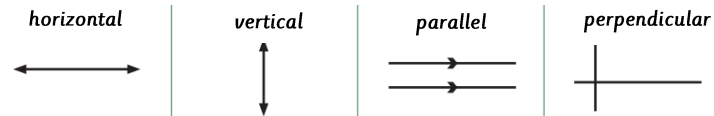
Draw or complete 2D shapes and make 3D shapes using model materials:



Recognise angles as a property of shape or as a description of a turn. Recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn.



Identify horizontal and vertical lines and pairs of parallel and perpendicular lines.



## Key Vocabulary and definitions

<b>edge</b>	Where 2 faces meet on a 3D shape.
<b>vertex</b>	A corner point, where 2 or more sides or edges meet.
<b>vertices</b>	More than 1 vertex (corner point) e.g., a triangle has 3 vertices.
<b>face</b>	A flat surface on a 3D shape.
<b>curved</b>	Rounded. (A sphere and a cylinder both have 1 curved surface).
<b>regular shape</b>	When all the sides are the same length and the angles measure the same like this regular hexagon:
<b>irregular shape</b>	When the sides and angles do not measure the same and the shape looks different like this irregular hexagon:
<b>angles</b>	When two straight lines meet at a point (right angle, acute angle, obtuse angle).
<b>turn</b>	Movement in a circular direction (quarter turn, half turn, three-quarter turn, one whole turn).
<b>clockwise</b>	A turn that moves in the same direction as the hands on a clock.
<b>anticlockwise</b>	The opposite direction to clockwise.
<b>vertical line</b>	A line that goes straight up e.g., people stand up straight in a vertical position.
<b>horizontal line</b>	A line that goes across e.g., an aeroplane glides through the sky in a horizontal position.
<b>intersect</b>	Cross e.g., when two or more lines cross or lie across each other.
<b>parallel lines</b>	Lines that never intersect e.g., run along next to each other like tracks of a train.
<b>perpendicular lines</b>	Lines that intersect one and other at 90° (right angle).