

Understand the properties of shapes

	Years 1 and 2	Years 3 and 4	Year 5 and 6
	<ul style="list-style-type: none"> - Recognise and name common 2D and 3D shapes. - Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. - Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. - Identify 2-D shapes on the surface of 3-D shapes. <ul style="list-style-type: none"> - Compare and sort common 2-D and 3-D shapes and everyday objects 	<ul style="list-style-type: none"> - Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them. - Recognise angles as a property of shape or a description of a turn. - Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle. - Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. - Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. 	<ul style="list-style-type: none"> - Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. <ul style="list-style-type: none"> - Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. - Draw given angles, and measure them in degrees ($^{\circ}$). <ul style="list-style-type: none"> - Identify: - Angles at a point and one whole turn (total 360°). - Angles at a point on a straight line and a turn (total 180°). - Other multiples of 90°. - Use the properties of rectangles to deduce related facts and find missing lengths and angles. - Distinguish between regular and irregular polygons based on

		<ul style="list-style-type: none">- Identify acute and obtuse angles and compare and order angles up to two right angles by size.- Identify lines of symmetry in 2-D shapes presented in different orientations.- Complete a simple symmetric figure with respect to a specific line of symmetry	<p>reasoning about equal sides and angles.</p> <ul style="list-style-type: none">- Draw 2-D shapes using given dimensions and angles.- Recognise, describe and build simple 3-D shapes, including making nets.- Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.- Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.- Recognise angles where they meet at a point, are on a straight line, or are vertically opposite and find missing angles
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