



Geometry: Properties of Shapes

IDENTIFYING SHAPES AND THEIR PROPERTIES

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
<p>Use familiar objects and common shapes to create and recreate patterns ELG - They recognise, create and describe patterns</p>	<p>recognise and name common 2-D and 3-D shapes, including:</p> <ul style="list-style-type: none"> * 2-D shapes [e.g. rectangles (including squares), circles and triangles] * 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres]. <p>Unit 5 Book 1A</p>	<p>identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line Unit 9 Book 2B</p>		<p>identify lines of symmetry in 2-D shapes presented in different orientations Unit 15 Book 4C</p>	<p>identify 3-D shapes, including cubes and other cuboids, from 2-D representations Unit 14 Book 5c</p>	<p>recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing) Unit 13 Book 6C</p>	
<p>Begin to use mathematical names for 'solid' 3D shapes and 'flat' 2D shapes, and mathematical terms to describe shapes ELG - They explore characteristics of everyday objects and shapes and use mathematical language to describe them</p>		<p>identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces Unit 9 Book 2B</p>	<p>identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] Unit 9 Book 2B</p>				<p>illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Unit 13 Book 6C</p>

DRAWING AND CONSTRUCTING



Geometry: Properties of Shapes

Use familiar objects and common shapes to create and recreate patterns and build models			draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them Unit 12 3C	complete a simple symmetric figure with respect to a specific line of symmetry Unit 15 Book 4C	draw given angles, and measure them in degrees ($^{\circ}$) Unit 13 Book 5C	draw 2-D shapes using given dimensions and angles Unit 13 Book 6C recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties) Unit 13 Book 6C
---	--	--	--	--	---	---

COMPARING AND CLASSIFYING

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Begin to use mathematical names for 'solid' 3D shapes and 'flat' 2D shapes, and mathematical terms to describe shapes		compare and sort common 2-D and 3-D shapes and everyday objects Unit 9 Book 2B		compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Unit 15 Book 4C	use the properties of rectangles to deduce related facts and find missing lengths and angles Unit 6 Book 5A Unit 13 Book 5C distinguish between regular and irregular polygons based on reasoning about equal sides and angles Unit 14 Book 5C	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons Unit 13 Book 6C

ANGLES

Describe their relative position such as 'behind' or			recognise angles as a property of shape or a description of a turn		know angles are measured in degrees: estimate and compare acute, obtuse and	
--	--	--	--	--	---	--



Geometry: Properties of Shapes

'next to'			Unit 12 3C		reflex angles Unit 13 Book 5C	
			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 Unit 12 3C	identify acute and obtuse angles and compare and order angles up to two right angles by size Unit 15 Book 4C	identify: * angles at a point and one whole turn (total 360°) * angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) * other multiples of 90° * Unit 13 Book 5C	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles Unit 14 Book 6C
			identify horizontal and vertical lines and pairs of perpendicular and parallel lines Unit 12 3C			