



Geometry: Properties of shapes

IDENTIFYING SHAPES AND THEIR PROPERTIES					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<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>identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</p>		<p>identify lines of symmetry in 2-D shapes presented in different orientations</p>	<p>identify 3-D shapes, including cubes and other cuboids, from 2-D representations</p>	<p>recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing)</p>
	<p>identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</p>				<p>illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</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]</p>				



DRAWING AND CONSTRUCTING

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	complete a simple symmetric figure with respect to a specific line of symmetry	draw given angles, and measure them in degrees ($^{\circ}$)	draw 2-D shapes using given dimensions and angles Recognise, describe and build 3D shapes, include making nets



COMPARING AND CLASSIFYING

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Compare and sort common 2D and 3D shapes and everyday objects		Compare and classify geometric shapes including quadrilaterals and triangles based on their properties and size	Use the properties of rectangles or deduce related facts and find missing lengths and angles Distinguish between regular and irregular polygons based on reasoning about angles and equal sides.	Compare and classify geometric shapes based on their properties and sides and find unknown angles in any triangles, quadrilaterals and regular polygons



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ANGELS

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		Recognising angels and a properties of shapes or a description of a turn		Know angels are measured in degrees. Estimate and compare acute, obtuse and reflect angels	
		Identify right angels and that two right angles make a half turn, three make a three quarter turn and four make a complete turn. Identify if angels are greater or less than a right angel	Identify acute and obtuse angels and compare and order angels up to two angels by size	Identify angels at a point and one whole turn 360 * angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180o) * other multiples of 90o	Recognise angels where they are on a point, meet on a straight line or are vertically opposite and find missing angels



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