

Year	Identifying Shapes and their Properties	Drawing and Constructing	Comparing and Classifying	Angles
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Glen Hills Primary School Progression Map
Maths – Geometry: Properties of Shape



Year	Identifying Shapes and their Properties	Drawing and Constructing	Comparing and Classifying	Angles
4+	Select, rotate and manipulate shapes to develop spatial reasoning skills. Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.			
Year 1	To recognise and name common 2-D and 3-D shapes, including: <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). 			

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Year 2	To identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line. To identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces. To identify 2-D shapes on the surface of 3-D shapes (for examples, a circle on a cylinder and a triangle on a pyramid).		To compare and sort common 2-D and 3-D shapes and everyday objects.	
Year 3		To draw 2-D shapes and make 3-D shapes using modeling materials; recognise 3-D shapes in different orientations and describe them.		To recognise angles as a property of shape or a description of a turn. To identify right angles, recognise that two right angles make a halfturn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle.
				To identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
Year 4	To identify lines of symmetry in 2-D shapes presented in different orientations.	To complete a simple symmetric figure with respect to a specific line of symmetry.	To compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.	To identify acute and obtuse angles and compare and order angles up to two right angles by size.

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Year 5	To identify 3-D shapes, including cubes and other cuboids, from 2-D representations.	To draw given angles, and measure them in degrees ($^{\circ}$).	To use the properties of rectangles to deduce related facts and find missing lengths and angles. To distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	To know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. To identify: <ul style="list-style-type: none"> 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°.
Year 6	To recognise, describe and build simple 3-D shapes, including making nets. (appears also in Drawing and Constructing) To illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.	To draw 2-D shapes using given dimensions and angles. To recognise, describe and build simple 3-D shapes, including making nets. (appears also in Identifying Shapes and their Properties)	To compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.	To recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.