

## PROGRESSION IN GEOMETRY (PROPERTIES OF SHAPE) YEAR 6

Strand	What do I already know?	What am I going to be learning?	What will I learn next?
Identifying shapes and their	<ul> <li>Y1: recognise and name common 2-D and 3-D shapes, including:</li> <li>2-D shapes [e.g. rectangles (including squares), circles and triangles]</li> <li>3-D shapes [e.g. cuboids including cubes), pyramids and spheres].</li> <li>Y2:</li> </ul>	Recognise, describe and build simple 3-D shapes, including making nets. Illustrate and name parts of circles, including	
properties	<ul> <li>identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</li> <li>identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</li> <li>identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].</li> <li>Y4 - Identify lines of symmetry in 2-D shapes presented in different orientations.</li> <li>Y5 - Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.</li> </ul>	radius, diameter and circumference and know that the diameter is twice the radius.	
Drawing and constructing	<ul> <li>Y3:</li> <li>draw 2-D shapes and make 3-D shapes using modelling materials</li> <li>recognise 3-D shapes in different orientations and describe them</li> <li>Y4 - Complete a simple symmetric figure with respect to a specific line of symmetry.</li> <li>Y5 - Draw given angles, and measure them in degrees (°).</li> </ul>	Draw 2-D shapes using given dimensions and angles. Recognise, describe and build simple 3-D shapes, including making nets.	KS3 maths
Comparing and Classifying	<ul> <li>Y2 - compare and sort common 2-D and 3-D shapes and everyday objects.</li> <li>Y4 - Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</li> <li>Y5 - Use the properties of rectangles to deduce related facts and find missing lengths and angles.</li> <li>Y5 - Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</li> </ul>	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.	T S
Angles	<ul> <li>Y3:</li> <li>recognise angles as a property of shape or a description of a turn</li> <li>identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn</li> <li>identify whether angles are greater than or less than a right angle</li> <li>identify horizontal and vertical lines and pairs of perpendicular and parallel lines</li> <li>Y4 - Identify acute and obtuse angles and compare and order angles up to two right angles by size.</li> <li>Y5 - Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.</li> <li>Identify angles at a point and a whole turn = 360°; angles on a straight line and a ½ turn = 180°.</li> </ul>	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.	
Vocabulary	2-D, 3-D, vertex / vertices, edge, face, flat, curved, acute, obtuse, reflex, degrees, clockwise / anticlockwise, right angle, straight line, point, vertical, horizontal, par symmetrical / lines of symmetry, quadrilateral, triangle, regular / irregular, scalene, equilateral, isosceles, rhombus, parallelogram, trapezium		