## 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 properties | Y1: recognise and name common 2-D and 3-D shapes, including: <br> - 2-D shapes [e.g. rectangles (including squares), circles and triangles] <br> - 3-D shapes [e.g. cuboids including cubes), pyramids and spheres]. <br> Y2: <br> - identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line <br> - identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces <br> - identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]. <br> Y4 - Identify lines of symmetry in 2-D shapes presented in different orientations. <br> Y5-Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. | Recognise, describe and build simple 3-D shapes, including making nets. <br> Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius. | $\begin{aligned} & \text { 주 } \\ & \text { 3 } \\ & \stackrel{\rightharpoonup}{3} \\ & \stackrel{\rightharpoonup}{5} \end{aligned}$ |
| Drawing and constructing | Y3: <br> - draw 2-D shapes and make 3-D shapes using modelling materials <br> - recognise 3-D shapes in different orientations and describe them <br> Y4 - Complete a simple symmetric figure with respect to a specific line of symmetry. <br> Y5 - Draw given angles, and measure them in degrees ( $\circ$ ). | Draw 2-D shapes using given dimensions and angles. <br> Recognise, describe and build simple 3-D shapes, including making nets. |  |
| Comparing and Classifying | Y2 - compare and sort common 2-D and 3-D shapes and everyday objects. <br> Y4 - Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. <br> Y5 - Use the properties of rectangles to deduce related facts and find missing lengths and angles. <br> Y5 - Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. | Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons. |  |
| Angles | Y3: <br> - recognise angles as a property of shape or a description of a turn <br> - identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn <br> - identify whether angles are greater than or less than a right angle <br> - identify horizontal and vertical lines and pairs of perpendicular and parallel lines <br> Y4 - Identify acute and obtuse angles and compare and order angles up to two right angles by size. Y5 - Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Identify angles at a point and a whole turn $=360^{\circ}$; angles on a straight line and a $1 / 2$ turn $=180^{\circ}$. | 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, parallel, symmetrical / lines of symmetry, quadrilateral, triangle, regular / irregular, scalene, equilateral, isosceles, rhombus, parallelogram, trapezium |  |  |

