

St Benedict's Catholic Primary School
Progress in Skills: Mathematics:
Geometry: Properties of Shapes and Position, Direction, Motion



*With Jesus, we learn,
 love and laugh*

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn Term		<p>Identify & describe the properties of 2D shapes, incl. the number of sides & symmetry in a vertical line.</p> <p>Identify and describe the properties of 3D shapes, incl. the number of edges, vertices and faces.</p> <p>Compare and sort common 2D and 3D shapes & everyday objects.</p>	<p>Recognise angles are a property of a shape or a description of turn.</p> <p>Identify angles; recognise 2 right angles make a half-turn, 3 make a $\frac{3}{4}$ turn and 4 a complete turn; identify whether angles are greater or less than a right angle</p>		<p>Identify 3D shapes incl. cubes & cuboids from 2D representations.</p> <p>Use the properties of rectangles to deduce related facts & find missing lengths and angles.</p> <p>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</p> <p>Know angles are measured in degrees; estimate and compare acute, obtuse and reflex angles.</p> <p>Identify: angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°); angles at a point & one whole turn (total 360°); other multiples of 90°</p> <p>Draw any given angles & measure them in degrees.</p>	
Spring Term	<p>Recognise and name some common 2D and 3D shapes incl:</p> <ul style="list-style-type: none"> - 2D, e.g. rectangles (incl. squares), circles, triangles - 3D, e.g. cuboids (incl. cubes), pyramids, spheres. 	<p>Identify 2D shapes on the surface of 3D shapes.</p>	<p>Draw 2D shapes</p> <p>Identify horizontal & vertical, & pairs of parallel and perpendicular lines</p>	<p>Compare and classify geometric shapes incl. quadrilaterals and triangles based on their properties and sizes.</p> <p>Identify acute and obtuse angles and compare and order angles up to 180° by size.</p>	<p>Identify, describe and represent the position of a shape following a reflection or translation using the appropriate language, & know that the shape has not changed.</p>	<p>Draw 2D shapes using given dimensions & angles.</p> <p>Recognise, describe and build simple 3D shapes incl. making nets.</p> <p>Compare and classify geometric shapes based on their properties and sizes &</p>

				<p>Describe positions on a 2D grid as co-ordinates in the first quadrant.</p> <p>Describe movements between positions and translations of a given unit to the left/right and up/down.</p> <p>Plot specified points and draw sides to complete a given polygon.</p>		<p>find unknown angles in any triangles, quadrilaterals & regular polygons.</p> <p>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, & find missing angles.</p> <p>Illustrate and name parts of circles, incl. radius & diameter.</p> <p>Describe positions on the full co-ordinate grid (all 4 quadrants).</p> <p>Draw and translate simple shapes on the co-ordinate plane & and reflect them in the axes.</p>
<p>Summer Term</p>	<p>Describe position, directions and movement, incl. half, quarter and three-quarter turns.</p>	<p>Order & arrange combinations of mathematical objects in patterns and sequences.</p> <p>Use mathematical vocabulary to describe position, direction & movement, incl. movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for $\frac{1}{4}$, $\frac{1}{2}$, and $\frac{3}{4}$ turns (clockwise and anti-clockwise).</p>	<p>Make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them.</p>	<p>Identify lines of symmetry in 2D shapes presented in different orientations.</p> <p>Complete a simple symmetric figure with respect to a specific line of symmetry.</p>		<p>Illustrate and name parts of circles, incl. circumference and know that the diameter is twice the radius.</p>