



Maths Geometry Progression at Meanwood C of E Primary School



<b>CURRICULUM SUBJECT:</b>		<b>Maths Geometry</b>		<b>SUBJECT LEADS:</b>	<b>Catherine Bowie</b>	
What are the Y6 end of school end goals?		<p>To have a solid understanding of number and be confident using number in everyday situations</p> <p>To use basic maths to solve problems that involve application and thought</p> <p>To not fear maths and to see it as a gateway to improving understanding of the wider world</p> <p>To be able to use a range of strategies which provide recognised, reasonable solutions</p> <p>To have a can-do attitude to maths and be resilient when faced with difficult challenges</p>				
How is the curriculum at Meanwood C of E Primary School sequenced towards these end points?						
<b>Geometry</b>						
<b>2D Shape</b>						
<b>EYFS</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
<ul style="list-style-type: none"> <li>Recognise circles and triangles, composing and decomposing these shapes</li> <li>Learn squares and rectangle have 4 straight sides and 4 corners</li> </ul> <p><b>Autumn</b></p>	<ul style="list-style-type: none"> <li>recognise and name common 2-D shapes [for example, rectangles (including squares), circles and triangles]</li> </ul> <p><b>Autumn 3</b></p>	<ul style="list-style-type: none"> <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 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>compare and sort common 2-D shapes and everyday objects</li> </ul> <p><b>Autumn 3</b></p>	<ul style="list-style-type: none"> <li>draw 2-D shapes</li> </ul> <p><b>Summer 4</b></p>	<ul style="list-style-type: none"> <li>compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes</li> <li>identify lines of symmetry in 2-D shapes presented in different orientations</li> </ul> <p><b>Summer 4</b></p>	<ul style="list-style-type: none"> <li>distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</li> <li>use the properties of rectangles to deduce related facts and find missing lengths and angles</li> </ul> <p><b>Summer 1</b></p>	<ul style="list-style-type: none"> <li>draw 2-D shapes using given dimensions and angles</li> <li>compare and classify geometric shapes based on their properties and sizes</li> <li>illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</li> </ul> <p><b>Summer 1</b></p>
<b>3D Shape</b>						
<ul style="list-style-type: none"> <li>Matching objects and building with 3d shapes (cubes, cuboids, cylinders,</li> </ul>	<ul style="list-style-type: none"> <li>recognise and name common 3-D shapes [for example, cuboids</li> </ul>	<ul style="list-style-type: none"> <li>recognise and name common 3-D shapes [for example, cuboids (including cubes),</li> </ul>	<ul style="list-style-type: none"> <li>make 3-D shapes using modelling materials; recognise 3-D</li> </ul>		<ul style="list-style-type: none"> <li>identify 3-D shapes, including cubes and other</li> </ul>	<ul style="list-style-type: none"> <li>recognise, describe and build simple 3-D</li> </ul>



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cones and spheres) <b>Spring</b>	(including cubes), pyramids and spheres] <b>Autumn 3</b>	pyramids and spheres] • compare and sort common 3-D shapes and everyday objects <b>Autumn 3</b>	shapes in different orientations and describe them <b>Summer 4</b>		cuboids, from 2-D representations <b>Summer 1</b>	shapes, including making nets <b>Summer 1</b>
<b>Angles and Lines</b>						
			<ul style="list-style-type: none"> <li>recognise angles as a property of shape or a description of a turn • identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle • identify horizontal and vertical lines and pairs of perpendicular and parallel lines</li> </ul> <b>Summer 4</b>	<ul style="list-style-type: none"> <li>identify acute and obtuse angles and compare and order angles up to two right angles by size • identify lines of symmetry in 2-D shapes presented in different orientations • complete a simple symmetric figure with respect to a specific line of symmetry</li> </ul> <b>Summer 4</b>	<ul style="list-style-type: none"> <li>know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles</li> <li>draw given angles, and measure them in degrees</li> <li>identify:             <ul style="list-style-type: none"> <li>angles at a point and one whole turn (total 360°)</li> <li>angles at a point on a straight line and ½ a turn (total 180°)</li> <li>other multiples of 90°</li> </ul> </li> </ul> <b>Summer 1</b>	<ul style="list-style-type: none"> <li>find unknown angles in any triangles, quadrilaterals, and regular polygons</li> <li>recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles</li> </ul> <b>Summer 1</b>



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Position and Direction						
<ul style="list-style-type: none"><li>• Select, rotate and manipulate shapes to develop spatial reasoning skills</li></ul> <p><b>Summer</b></p>	<ul style="list-style-type: none"><li>• describe position, direction and movement, including whole, half, quarter and three-quarter turns</li></ul> <p><b>Summer 3</b></p>	<ul style="list-style-type: none"><li>• order and arrange combinations of mathematical objects in patterns and sequences</li><li>• use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)</li></ul> <p><b>Summer 4</b></p>		<ul style="list-style-type: none"><li>• describe positions on a 2-D grid as coordinates in the first quadrant</li><li>• describe movements between positions as translations of a given unit to the left/right and up/down</li><li>• plot specified points and draw sides to complete a given polygon</li></ul> <p><b>Summer 6</b></p>	<ul style="list-style-type: none"><li>• identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed</li></ul> <p><b>Summer 2</b></p>	<ul style="list-style-type: none"><li>• describe positions on the full coordinate grid (all four quadrants)</li><li>• draw and translate simple shapes on the coordinate plane, and reflect them in the axes</li></ul> <p><b>Summer 2</b></p>