



Wheatlands Primary School

Maths - Skills Progression (EYFS/KS1/KS2)

Geometry



	EYFS Nursery Reception ELG	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
2-D Shapes:	<p>Talk about and explore 2D and 3D shapes using informal and mathematical language.</p> <p>Select shapes appropriately.</p> <p>Combine shapes to make new ones - an arch, a bigger triangle.</p> <p>Select, rotate and manipulate shapes in order to develop spatial reasoning skills.</p> <p>Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can.</p>	<p>Recognise and name common 2-D shapes.</p> <p style="text-align: center;">Autumn 3</p>	<p>Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.</p> <p>Identify 2-D shapes on the surface of 3-D shapes.</p> <p>Compare and sort common 2-D shapes and everyday objects.</p> <p style="text-align: center;">Spring 3</p>	<p>Draw 2-D shapes.</p> <p style="text-align: center;">Summer 3</p>	<p>Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.</p> <p>Identify lines of symmetry in 2-D shapes presented in different orientations.</p> <p style="text-align: center;">Summer 5</p>	<p>Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.</p> <p>Use the properties of rectangles to deduce related facts and find missing lengths and angles.</p> <p style="text-align: center;">Summer 2</p>	<p>Draw 2-D shapes using given dimensions and angles.</p> <p>Compare and classify geometric shapes based on their properties and sizes.</p> <p>Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.</p> <p style="text-align: center;">Summer 1</p>
3-D Shapes:		<p>Recognise and name common 3-D shapes.</p> <p style="text-align: center;">Autumn 3</p>	<p>Recognise and name common 3-D shapes.</p> <p>Compare and sort common 3-D shapes and everyday objects.</p> <p style="text-align: center;">Spring 3</p>	<p>Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.</p> <p style="text-align: center;">Summer 3</p>		<p>Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.</p> <p style="text-align: center;">Summer 2</p>	<p>Recognise, describe and build simple 3-D shapes, including making nets.</p> <p style="text-align: center;">Summer 1</p>



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Angles and Lines:			<p>Recognise angles as a property of shape or a description of a turn.</p> <p>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.</p> <p>Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.</p> <p style="text-align: center;">Summer 3</p>	<p>Identify acute and obtuse angles and compare and order angles up to two right angles by size.</p> <p>Identify lines of symmetry in 2-D shapes presented in different orientations.</p> <p>Complete a simple symmetric figure with respect to a specific line of symmetry.</p> <p style="text-align: center;">Summer 5</p>	<p>Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.</p> <p>Draw given angles, and measure them in degrees.</p> <p>Identify:</p> <ul style="list-style-type: none">➤ Angles to a point and one whole turn➤ Angles at a point on a straight line and $\frac{1}{2}$ a turn.➤ Other multiples of 90°. <p style="text-align: center;">Summer 2</p>	<p>Find unknown angles in any triangles, quadrilaterals, and regular polygons.</p> <p>Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.</p> <p style="text-align: center;">Summer 1</p>



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Position and Direction:	<p>Understand position through words alone.</p> <p>Talk about and identify the patterns around them.</p> <p>Extend and create ABAB patterns.</p> <p>Notice and correct an error in a repeating pattern.</p> <p>Describe a familiar route.</p> <p>Discuss routes and locations, using words like 'in front of' and 'behind'.</p> <p>Continue, copy and create repeating patterns.</p>	<p>Describe position, direction and movement, including whole, half, quarter and three-quarter turns.</p> <p style="text-align: center;">Summer 3</p>	<p>Order and arrange combinations of mathematical objects in patterns and sequences.</p> <p>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).</p> <p style="text-align: center;">Spring 3 Summer 1</p>		<p>Describe positions on a 2-D grid as coordinates in the first quadrant.</p> <p>Describe movements between positions as 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 style="text-align: center;">Summer 6</p>	<p>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.</p> <p style="text-align: center;">Summer 3</p>	<p>Describe positions on the full coordinate grid (all four quadrants).</p> <p>Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.</p> <p style="text-align: center;">Autumn 4</p>
Vocabulary:	<p>In On Below</p> <p>Under Above</p> <p>In front of Behind</p> <p>Next to</p> <p>Up Down Across</p> <p>Forwards Backwards</p> <p>Left Right</p> <p>Roll Stack Push</p> <p>Curved Straight Round</p> <p>Corners Face Edge</p> <p>Sides Smooth</p> <p>Square Rectangle Circle</p> <p>Triangle Sphere Cube</p>	<p>In addition to previous years:</p> <p>2D</p> <p>3D</p> <p>Pyramid</p> <p>Pattern</p> <p>Repeat</p> <p>Turn</p> <p>Position</p> <p>Direction</p> <p>Half turn</p> <p>Quarter turn</p> <p>Three-quarter turn</p>	<p>In addition to previous years:</p> <p>Quadrilateral</p> <p>Polygon</p> <p>Pentagon</p> <p>Hexagon</p> <p>Octagon</p> <p>Vertex</p> <p>Vertices</p> <p>Line of symmetry</p> <p>Symmetrical</p> <p>Reflection</p> <p>Hemisphere</p>	<p>In addition to previous years:</p> <p>Angle</p> <p>Right angle</p> <p>Straight Line</p> <p>Perpendicular</p> <p>Parallel</p> <p>Vertical</p> <p>Horizontal</p> <p>Apex</p> <p>Heptagon</p>	<p>In addition to previous years:</p> <p>Interior angle</p> <p>Acute</p> <p>Obtuse</p> <p>Regular</p> <p>Irregular</p> <p>Isosceles</p> <p>Scalene</p> <p>Equilateral</p> <p>Reflective</p> <p>Symmetry</p> <p>Grid</p>	<p>In addition to previous years:</p> <p>Degree (°)</p> <p>Reflex</p> <p>Interior angle</p> <p>Top view</p> <p>Plan view</p> <p>Side view</p> <p>Mirror line</p> <p>Translate</p> <p>Translation</p>	<p>In addition to previous years:</p> <p>Quadrant</p> <p>Reflect</p> <p>Vertically opposite</p> <p>Radius</p> <p>Diameter</p> <p>Circumference</p> <p>Net</p>

	Cuboid Big Flat Same Different	Cylinder Little Pointy Difference Properties	Cone Whole turn In between Below Top Middle Bottom	Curved surface Edge Prism Anti-clockwise Clockwise		Co-ordinates		
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