



# Sherdley Primary School

2022-2023

## Maths: Geometry: Properties of Shape Progression Statements – End of year expectations

IDENTIFYING SHAPES AND THIER PROPERTIES							
Preschool	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Find and notice circles and triangles</p> <p>Talk about 2D and 3D shapes when building and models and drawing pictures.</p>	<p>Know and use the shape names: circle, triangle, square and rectangle</p> <p>Know and use the shape names: cube, cuboid, cylinder, sphere, cone and triangular prism.</p> <p>Know the properties of 3D shapes.</p>	<p>Recognise and name common 2-D and 3-D shapes, including:</p> <ul style="list-style-type: none"> <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> </ul>	<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 lines of symmetry in 2-D shapes presented in different orientations</p>	<p>Identify 3-D shapes, including cubes and other cuboids, from 2-D representations</p>	<p>Recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing)</p>
			<p>Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</p>				<p>Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius</p>
			<p>Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]</p>				
DRAWING AND CONSTRUCTING							
	<p>Find shapes within other shapes.</p> <p>Make shapes using different shapes.</p>			<p>Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them</p>	<p>Complete a simple symmetric figure with respect to a specific line of symmetry</p>	<p>Draw given angles, and measure them in degrees (°)</p>	<p>Draw 2-D shapes using given dimensions and angles</p>
							<p>Recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties)</p>



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COMPARING AND CLASSIFYING							
Preschool	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Match an object including colour and size.	Match and sort objects to a specific criterion.		Compare and sort common 2-D and 3-D shapes and everyday objects		Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	Use the properties of rectangles to deduce related facts and find missing lengths and angles	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
Match an object by shape.	Identify the odd one out.  Match and sort objects to their own criteria.					Distinguish between regular and irregular polygons based on reasoning about equal sides and angles	
ANGLES							
				Recognise angles as a property of shape or a description of a turn		Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	
				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 acute and obtuse angles and compare and order angles up to two right angles by size	Identify: * angles at a point and one whole turn (total $360^\circ$ ) * angles at a point on a straight line and $\frac{1}{2}$ a turn (total $180^\circ$ ) * other multiples of $90^\circ$	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
				Identify horizontal and vertical lines and pairs of perpendicular and parallel lines			