

# Geometry: Properties of Shapes

Nursery	Reception	Year 1	Year 2	Year 3
IDENTIFYING SHAPES AND THEIR PROPERTIES				
<b>Shape</b> <ul style="list-style-type: none"><li>Chooses items based on their shape which are appropriate for the child's purpose</li><li>Responds to both informal language and common shape names</li></ul>	<b>Shape</b> <ul style="list-style-type: none"><li>Uses informal language and analogies, (e.g. heart-shaped and hand-shaped leaves), as well as mathematical terms to describe shapes</li></ul>	recognise and name common 2-D and 3-D shapes, including: <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>	identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line	
			identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces	
			identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]	
DRAWING AND CONSTRUCTING				
<ul style="list-style-type: none"><li>Enjoys partitioning and combining shapes to make new shapes with 2D and 3D shapes</li><li>Attempts to create arches and enclosures when building, using trial</li></ul>	<ul style="list-style-type: none"><li>Enjoys composing and decomposing shapes, learning which shapes combine to make other shapes</li><li>Uses own ideas to make models of increasing complexity.</li></ul>			draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them

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and improvement to select blocks	selecting blocks needed, solving problems and visualising what they will build			
COMPARING AND CLASSIFYING				
<ul style="list-style-type: none"> <li>Shows awareness of shape similarities and differences between objects</li> </ul>			compare and sort common 2-D and 3-D shapes and everyday objects	
ANGLES				
				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