

Geometry Strand

<u>Reception</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
N/A for ELGs Children will become familiar with 2D shapes such as circle, square, rectangle and triangle in continuous provision.	Recognise and name common 2-D shapes [for example, rectangles (including squares), circles and triangles]. Recognise and name common 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]. Describe position, direction and movement, including whole turns. Describe position, direction and movement, including half turns. Describe position, direction and movement, including	Order and arrange combinations of mathematical objects in patterns. Use mathematical vocabulary to describe position, direction and movement, including distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise), and movement in a straight line. Identify and describe the properties of 2-D shapes, including the number of edges, vertices and symmetry in a vertical line.	Draw 2-D shapes. Make 3-D shapes using modelling materials. Recognise 3-D shapes in different orientations and describe them. 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.	Compare/classify geometric shapes, including quadrilaterals and triangles, based on their properties/sizes. Identify acute and obtuse angles. Compare angles by size. Order angles by size. Identify lines of symmetry in 2-D shapes presented in different orientations. Complete a simple symmetrical figure with respect to a specific line of symmetry. Describe positions on a 2-D grid as coordinates in the first quadrant.	Identify 3-D shapes, including cubes and other cuboids, from 2-D representations (nets). Estimate and compare acute, obtuse and reflex angles. Draw given angles, and measure them in degrees ($^{\circ}$). Identify angles at a point and one whole turn (total 360°). Know that angles at a point on a straight line and half a turn total 180°. Use the properties of rectangles to deduce related facts and find missing lengths and angles.	Describe positions on the full co-ordinate grid (four quadrants). Draw and translate simple shapes on the co-ordinate plane. Reflect simple shapes across an axis.

	quarter turns. Describe position, direction and movement, including three-quarter turns.	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. Compare and sort common 2-D and 3-D shapes and everyday objects.	Identify pairs of perpendicular and parallel lines.	Describe movements between positions as translations to the left/right and up/down. Plot specified points and draw sides to complete a given polygon.	Distinguish between regular and irregular polygons. Reflect shapes accurately, and describe the new position. Translate shapes accurately, and describe the new position.	
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