

National Curriculum Milestones Document

Geometry

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Geometry	Recognise and name common 2-D and 3-D shapes, including: 2-D shapes [for example, rectangles (including squares), circles and triangles]	Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line	Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes	Identify 3-D shapes, including cubes and other cuboids, from 2-D representations	Draw 2-D shapes using given dimensions and angles
	Recognise and name common 2-D and 3-D shapes, including: 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]	Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces	Recognise angles as a property of shape or a description of a turn	Identify acute and obtuse angles and compare and order angles up to two right angles by size	Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles	Recognise, describe and build simple 3-D shapes, including making nets

	Describe position, direction and movement, including whole, half, quarter and three-quarter turns	Identify 2-D shapes on the surface of 3-D shapes [for example, a circle on a cylinder and a triangle on a pyramid]	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 lines of symmetry in 2-D shapes presented in different orientations	Draw given angles, and measure them in degrees (o)	Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
		Compare and sort common 2-D and 3-D shapes and everyday objects	Identify horizontal and vertical lines and pairs of perpendicular and parallel lines	Complete a simple symmetric figure with respect to a specific line of symmetry	Identify: angles at a point and one whole turn (total 360o)	Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
		Order and arrange combinations of mathematical objects in patterns and sequences		Describe positions on a 2-D grid as coordinates in the first quadrant	Identify: angles at a point on a straight line and 1/2 a turn (total 180o)	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

		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)		Describe movements between positions as translations of a given unit to the left/right and up/down	Identify: other multiples of 90o	Describe positions on the full coordinate grid (all four quadrants)
				Plot specified points and draw sides to complete a given polygon	Use the properties of rectangles to deduce related facts and find missing lengths and angles	Draw and translate simple shapes on the coordinate plane, and reflect them in the axes
					Distinguish between regular and irregular polygons based on reasoning about equal sides and angles	

					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	
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