



0-3 YEARS	NURSERY	RECEPTION	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
<b>IDENTIFYING SHAPES AND THEIR PROPERTIES</b>								
	Talk about and explore 2D and 3D shapes (eg circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners', 'straight', 'flat', ;round'		recognise and name common 2-D and 3-D shapes, including: 2-D shapes [e.g. rectangles (including squares), circles and triangles] 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres].	identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line		identify lines of symmetry in 2-D shapes presented in different orientations	identify 3-D shapes, including cubes and other cuboids, from 2-D representations	recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing)
				identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces				illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
				identify 2-D shapes on the surface of 3-D shapes, [for				

## PROGRESSIONS OF SKILLS FOR MATHS Geometry – Properties of Shape

				example, a circle on a cylinder and a triangle on a pyramid]				
<b>DRAWING AND CONSTRUCTION</b>								
Combine objects like stacking blocks and cups	Select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc	Select, rotate and manipulate shapes to develop spatial reasoning skills			draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	complete a simple symmetric figure with respect to a specific line of symmetry	draw given angles, and measure them in degrees (°)	draw 2-D shapes using given dimensions and angles
Put objects inside others and take them out again	Combine shapes to make new ones – an arch, a bigger triangle etc	Compose and decompose shapes so that children can recognize a shape can have other shapes within it, just as numbers can						recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties
Build with a range of								

## PROGRESSIONS OF SKILLS FOR MATHS Geometry – Properties of Shape

resources								
<b>COMPARING AND CLASSIFYING</b>								
				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
							distinguish between regular and irregular polygons based on reasoning about equal sides and angles	
<b>ANGLES</b>								
					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	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°) * angles at a point on a straight line	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles

## PROGRESSIONS OF SKILLS FOR MATHS Geometry – Properties of Shape

					and four a complete turn; identify whether angles are greater than or less than a right angle		and ½ a turn (total 180°) other multiples of 90	
					identify horizontal and vertical lines and pairs of perpendicular and parallel lines			

### VOCABULARY

build, flat, side, corner	3D, 2D, sides, corners, straight, round, flat, square, triangle, cuboid, sphere	3D, 2D, corners, sides, straight, round, flat, turn, inside, square, triangle, cuboid, sphere, round	Group, sort 3D, 2D Cube, cuboid, pyramid, sphere, cone, cylinder, circle, triangle, square Shape Flat, curved, straight, round Hollow, solid Corner Face, side, edge	Size Property 3D, 2D Bigger, smaller, larger Edges Vertices Faces Symmetrical, line of symmetry Fold Match	Horizontal Vertical Perpendicular lines Parallel lines Angles Right angles Perimeter	Quadrilaterals Triangles Right angle Acute and obtuse angles Lines of symmetry	Regular and irregular polygons Degrees (°) Whole turn (360°) Acute, obtuse, and reflex angles Area	Horizontal Vertical Perpendicular lines Parallel lines Quadrilaterals Triangles Right angle Acute and obtuse angles Regular and irregular polygons
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