

Maths Progression Document Geometry Year 3 and 4

	<p>Reception Vocabulary Properties of Shape shape, pattern, flat, curved, straight, round, hollow, solid sort, make, build, draw, size, bigger, larger, smaller, symmetrical, pattern, repeating pattern, match</p> <p>2D Shape corner, side, rectangle (including square), circle, triangle</p> <p>Position and direction Position, over, under, above, below, top, bottom, side on, in, outside, inside, around, in front, behind, front, back, beside, next to, opposite, apart, between, middle, edge, corner, direction, left, right, up, down, forwards, backwards, sideways, across, next to, close, near, far, along, through, to, from, towards, away from, movement, slide, roll, turn, stretch, bend, whole turn, half turn</p> <p>Year 1 Vocabulary Properties of Shape Symmetry, symmetrical pattern</p> <p>2D Shape Point, pointed, hexagon, pentagon, octagon</p> <p>Position and Direction Underneath, centre, journey, quarter turn, three-quarter turn</p> <p>Year 2 Vocabulary Properties of Shape Surface, line symmetry</p> <p>2D Shape Rectangular, circular, triangular (re-visit pentagon, hexagon, octagon)</p> <p>Position and Direction Route, higher, lower, Clockwise, anticlockwise, Right angle, straight line.</p>	<p>3D Shape face, edge, vertex, vertices, cube, pyramid, sphere, cone</p> <p>3D Shape Cuboid, cylinder</p> <p>3D Shape Prism, 3D, 3 dimensional</p>
Key Vocabulary	<p>Year 3 Vocabulary Properties of Shape construct</p>	<p>Year 4 Vocabulary Properties of shape Perimeter, centre, angle, right-angled, base, square-based, reflect, reflection, regular, irregular</p>

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	<p>2D Shape pentagonal, hexagonal, octagonal, quadrilateral, right-angled, parallel, perpendicular</p> <p>3D Shape Hemisphere, prism, triangular prism, spherical, cylindrical</p> <p>Position and Direction compass point, north, south, east, west, N, S, E, W, horizontal, vertical, diagonal, angle ... is a greater/smaller angle than, acute angle, obtuse angle</p>	<p>2D Shape 2D, two-dimensional, oblong, rectilinear, equilateral triangle, isosceles triangle, scalene triangle, heptagon, parallelogram, rhombus, trapezium Polygon</p> <p>3D Shape tetrahedron, polyhedron</p> <p>Position and Direction north-east, north-west, south-east, south-west, NE, NW, SE, SW translate, translation, rotate, rotation, degree, reflection, ruler, set square angle measurer, compass</p>
Year group	Year 3	Year 4
Key skills	<ul style="list-style-type: none"> • Draw 2-D shapes and 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 halfturn, 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. 	<ul style="list-style-type: none"> • Identify acute and obtuse angles and compare and order angles up to two right angles by size • Compare and classify geometric shapes, including quadrilaterals and triangles based on their properties and sizes. • Identify lines of symmetry in 2D shapes presented in different orientations. • Complete a simple symmetric figure with respect to a specific line of symmetry. • Describe positions on a 2D grid as co-ordinates in the first quadrant. • Plot specific points and draw sides to complete a given polygon. • Describe movements between positions as translations of a given unit to the left/right and up/down
Notes	<p>It is really important that children understand that 2-D shapes are actually flat and the manipulatives they handle in class are representations of the shapes (it is not possible to draw around 2D shapes – the image created on the paper is a 2D shape but what they draw around was 3D).</p> <p>Ensure we show shapes in different orientations and in different proportions.</p>	