Maths Progression Document Geometry Year 5 and 6

	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 ***2D Shape*** corner, side, rectangle (including square), circle, triangle ***3D Shape*** face, edge, vertex, vertices, cube, pyramid, sphere, cone ***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 **Year 1 Vocabulary** ***Properties of Shape*** Symmetry, symmetrical pattern **2D Shape** Point, pointed, hexagon, pentagon, octagon **3D Shape** Cuboid, cylinder ***Position and Direction*** Underneath, centre, journey, quarter turn, three-quarter turn *Year 2 Vocabulary* ***Properties of Shape*** Surface, line symmetry **2D Shape** Rectangular, circular, triangular (re-visit pentagon, hexagon, octagon) **3D Shape** Prism ***Position and Direction*** Route, higher, lower, Clockwise, anticlockwise, Right angle, straight line. *Year 3 Vocabulary* **Properties of Shape** construct **2D Shape** pentagonal, hexagonal, octagonal, quadrilateral, right-angled, parallel, perpendicular **3D Shape** Hemisphere, prism, triangular prism **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 *Year 4 Vocabulary* ***Properties of shape*** Perimeter, centre, angle, right-angled, base, square-based, reflect, reflection, regular, irregular ***2D Shape*** 2D, two-dimensional, oblong, rectilinear, equilateral triangle, isosceles triangle, scalene triangle, heptagon, parallelogram, rhombus, trapezium***,*** Polygon ***3D Shape*** 3D, three-dimensional, spherical, cylindrical, tetrahedron, polyhedron ***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

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Key Vocabulary	***Year 5 Vocabulary*** ***Properties of Shape*** radius, diameter, congruent, axis of symmetry, reflective symmetry ***2D Shape*** x-axis, y-axis, quadrant ***3D Shape*** octahedron ***Position and Direction*** Coordinate, protractor	***Year 6 Vocabulary*** ***Properties of shape*** circumference, concentric, arc, net, open, closed, intersecting, intersection, plane ***2D Shape*** Kite ***3D Shape*** Dodecahedron, net, open, closed ***Position and Direction*** Reflex angle
Year group	***Year 5***	***Year 6***
Key skills	• *Identify 3-D shapes, including cubes and other cuboids, from 2-D representations.* • *Use the properties of rectangles to deduce related facts and find missing lengths and angles.* • *Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.* • *Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.* • *Draw given angles, and measure them in degrees.* • *Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and ½ a turn (total 180°) other multiples of 90°* • *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.*	• *Draw 2-D shapes using given dimensions and angles.* • *Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.* • *Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.* • *Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.* • *Describe positions on the full co-ordinate grid (all four quadrants)* • *Draw and translate simple shapes on the co-ordinate plane and reflect them in the axes.*
Notes	*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).* *Ensure we show shapes in different orientations and in different proportions.*	