

St Giles' C of E Primary School GEOMETRY Progression

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
POSITION AND DIRECTION	ELG - Children use everyday language to talk about position and to solve problems.	* describe position, direction and movement including whole, half, quarter and three-quarter turns	* order and arrange combinations of mathematical objects in patterns and sequences * use mathematical vocabulary to describe, position, direction and movement, including movement in a straight line and distinguish between rotation as a turn and in terms of right-angles for quarter, half and three-quarter turns [clockwise and anti-clockwise]	* recognise angles as an amount of rotation * recognise that 2 right angles make a half turn, three make three quarters of a turn and four a complete turn	* describe positions on a 2-D grid as co-ordinates in the first quadrant * describe movements between positions as translations of a given unit to the left/right and up/down * plot specified points and draw sides to complete a given polygon	* 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	* describe positions on the full co-ordinate grid [all four quadrants] * draw and translate simple shapes on the coordinate plane, and reflect them in the axes
PROPERTIES OF SHAPES	ELG - Children explore characteristics of everyday objects and shapes and use mathematical language to describe them.	* recognise and name common 2D and 3D shapes	* identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line * identify and describe the properties of 3D shapes, including the number of edges, vertices and faces * identify 2D shapes on the surface of 3d shapes * compare and sort common 2D and 3D shapes and everyday objects	* draw 2D shapes and make 3D shapes using modelling materials * recognise 3D shapes in different orientations and describe them * recognise angles as a property of shape or a description of a turn * identify right angles * identify whether angles are greater than or less than a right angle * identify horizontal and vertical lines and pairs of perpendicular and parallel lines	* compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes * identify acute and obtuse angles and compare and order angles up to two right angles by size * identify lines of symmetry in 2D shapes presented in different orientations * complete a simple symmetric figure with respect to a specific line of symmetry	* identify 3D shapes, including cubes and other cuboids, from 2D representations * 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°) * identify angles at a point on a straight line and a turn (total 180°) * identify other multiples of 90° * 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	* draw 2D shapes given dimensions and angles * recognise, describe and build simple 3D shapes, including making simple nets * compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons * illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius * recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles