Geometry: Properties of Shapes

		IDENTIFYING SHAPES	AND THEIR PROPERTIES		
sort objects using properties such as shape describe everyday objects talk about shapes in the environments play with shapes		Reception explore shapes with 4 sides recognise 3D shapes that roll and stack use names to describe 3D shapes investigate relationships between shapes			
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
recognise and name common 2-D and 3-D shapes, including: * 2-D shapes [e.g. rectangles (including	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 3D shapes, including making nets (appears also in Drawing and Constructing)

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quares), circles nd triangles] 3-D shapes [e.g. uboids (including ubes), pyramids nd spheres].	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
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		DRAWING AND	CONSTRUCTING		
Nursery use shapes to build models		Reception recognise that shapes can be combined and separated to make new shapes investigate how many ways a shape can be built using smaller shapes			
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		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
					recognise, describe and build simple 3D shapes, including making nets (appears also in Identifying Shapes and Their Properties)

COMPARING AND CLASSIFYING					
Reception compare 3D shapes identifying similarities and differences				ifferences	
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6

	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 distinguish between regular and irregular polygons based on reasoning about equal sides and angles	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
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	ANGLES		
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 and four a complete turn; identify whether angles are greater than or less than a right angle	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 and ½ a turn (total 180°) * other multiples of 90°	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
identify horizontal and vertical lines and pairs of perpendicular and parallel lines			