Geometry: Properties of Shapes

IDENTIFYING SHAPES AND THIER PROPERTIES					
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 squares), circles and triangles] * 3-D shapes [e.g. cuboids (including cubes), pyramids and spheres]. T1 U5	identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line T2 U9 identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces T2 U9 identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] T2 U9		identify lines of symmetry in 2-D shapes presented in different orientations T3 U15	identify 3-D shapes, including cubes and other cuboids, from 2-D representations T3 U14	identify 3-D shapes, including cubes and other cuboids, from 2-D representations **Y5** T3 U13 recognise, describe and build simple 3-D shapes, including making nets (appears also in Drawing and Constructing) T3 U13 illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius T3 U13
DRAWING AND CONSTRUCTING					
Recognise and create repeating patterns with objects and with shapes T1 U5		draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in	complete a simple symmetric figure with respect to a specific line of symmetry	draw given angles, and measure them in degrees (^{o}) T3 U13 & U14	draw 2-D shapes using given dimensions and angles T3 U13

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		different orientations and describe them T3 U12	T3 U15		recognise, describe and build simple 3-D shapes, including making nets (appears also in Identifying Shapes and Their Properties) T3 U13

COMPARING AND CLASSIFYING					
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 T2 U9 Order and arrange combinations of mathematical objects in patterns and sequences. T2 U9		compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes T3 U15	use the properties of rectangles to deduce related facts and find missing lengths and angles T3 U13 & U14 distinguish between regular and irregular polygons based on reasoning about equal sides and angles T3 U14	compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons T3 U13 T3 U14

ANGLES					
		recognise angles as a property of shape or a description of a turn T3 U12		know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles T3 U13	
		identify right angles, recognise	identify acute and	identify:	recognise angles where

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		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 **T3 U12**	obtuse angles and compare and order angles up to two right angles by size **T3 U15**	* 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° **T3 U13 & U14**	they meet at a point, are on a straight line, or are vertically opposite, and find missing angles **T3 U13** **T3 U14**
		identify horizontal and vertical lines and pairs of perpendicular and parallel lines **T3 U12**			

T1- Autumn term
T2- Spring term
T3- Summer term