Geometry- MATHS KNOWLEDGE ORGANISER LINKS TO PREVIOUS LEARNING							Triangles Triangles have 3 sides and 3 vertices. The total of the angles in a triangle is 180°.	
properties of shape				<ul> <li>identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line</li> </ul>			$\left  \right\rangle$	triangle is a regular polygon. It has sides of equal length and
ESSENTIAL VOCABULARY				<ul> <li>identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces</li> </ul>				
	Angle	the space (usually measured in degrees) betw two <u>intersecting</u> lines or surfaces at or close to point where they meet.	veen o the	<ul> <li>identify 2-D shapes on the surface of 3-D shapes   example, a circle on a cylinder and a triangle on a py</li> <li>compare and sort common 2-D and 3-D shapes a</li> </ul>			$\square$	An isosceles triangle has two sides of equal length and two angles
	Acute	Any angle measuring more than 0 degrees and than 90 degrees is acute.	lless		everyday objects.	everyday objects.		of equal size.
C	Obtuse	Any angle measuring more than 90 degrees, bu than 180 degrees is obtuse	It less	Quadril teral is a polygon wit	aterals th four sides.			A right-angled triangle always has
P	Parallel	side by side and having the same distance continuously between them.		+				one 90°angle. It can be isosceles or scalene.
Perp	pendicular	at an angle of 90° to a given line, plane, or surfator to the ground.	ace or	T				
Two-c	dimensional	a flat figure or a shape that has two dimensio length and width.	ns — A square ha length and (90°) A square	s four sides of equal four right angles	A rectangle has two pairs of parallel, equal sides and four right angles. A rectangle is		$\square$	A scalene triangle has no equal sides
Qua	adrilateral	A quadrilateral is a polygon with four side	a rhombus o	and a parallelogram.	also a parallelogram.			or angles.
v	/ertices	ces Corners on a shape		f	A rhombus has four sides of equal length and opposite equal angles. A rhombus is also a parallelogram.	Lines of summetry may b	Lines of Symmetry e horizontal, vertical or diagonal. Some 2D shapes will have m me 2D shapes will have multiple lines of symmetry. angle has An equilateral lines of triangle has A parallelogram has no lines of	
Edges       Sides of a shape         Symmetry       Lines of symmetry may be horizontal, vertical or diagonal.         Right angle       The intersection of perpendicular lines creates a right angle.         Key themes       Vhat's a quadrilateral?         •       What's a quadrilateral?         •       What's the difference between parallel and perpendicular lines?         •       Different types of angles		Sides of a shape	A parallelog	ram has two pairs of		lines of symmetry and so A square has A recto four lines of two		
		Lines of symmetry may be horizontal, vertica diagonal.	l or parallel, equ equal angles	al sides and opposite		symmetry. sym	metry. three lines of l symmetry.	line of symmetry.
		The intersection of perpendicular lines creater right angle.	es a					
		Key themes	_ /					
		A trapezium opposite pa	n only has one pair of rallel sides.	A kite has two pairs of adjacent equal sides and one pair of opposite equal angles.				

'As a family we live, love, learn and celebrate with Jesus.'