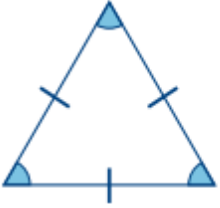
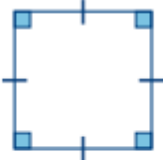
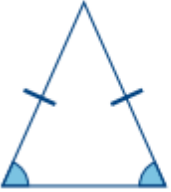
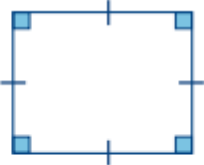


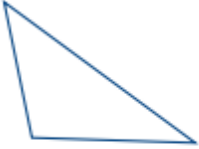




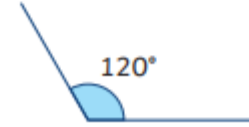

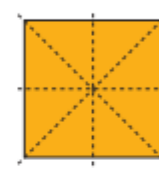
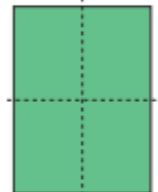
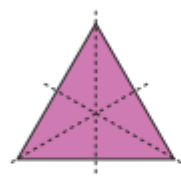
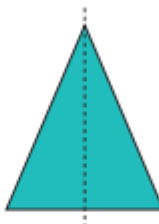
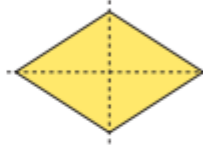


Year 4 Properties of Shapes Knowledge Organiser.

Properties of Shape		Knowledge Organiser	
Key Vocabulary	Triangles	Quadrilaterals	
angle	Triangles have 3 sides and 3 vertices. The total of the angles in a triangle is 180° .  An equilateral triangle is a regular polygon. It has sides of equal length and each angle is 60° .	A quadrilateral is a polygon with four sides. 	
right angle		A square has four sides of equal length and four right angles (90°). A square is also a rectangle, a rhombus and a parallelogram.	
acute	 An isosceles triangle has two sides of equal length and two angles of equal size.	 A rectangle has two pairs of parallel, equal sides and four right angles. A rectangle is also a parallelogram.	
obtuse		A parallelogram has two pairs of parallel, equal sides and opposite equal angles.	
horizontal	 A right-angled triangle always has one 90° angle. It can be isosceles or scalene.	 A rhombus has four sides of equal length and opposite equal angles. A rhombus is also a parallelogram.	
vertical		A trapezium only has one pair of opposite parallel sides.	
diagonal	 A scalene triangle has no equal sides or angles.	 A kite has two pairs of adjacent equal sides and one pair of opposite equal angles.	
parallel			
perpendicular			
two-dimensional			
polygon			
line of symmetry			
reflection			
mirror line			
isosceles			
equilateral			
scalene			
quadrilateral			
rhombus			
parallelogram			
trapezium			
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Properties of Shape	Knowledge Organiser				
Angles	Lines of Symmetry				
<p>An angle is created when two straight lines meet at a point or intersect.</p> <p>Right angle The intersection of perpendicular lines creates a right angle.</p>  <p>Acute angle Any angle measuring more than 0 degrees and less than 90 degrees is acute.</p>  <p>Obtuse angle Any angle measuring more than 90 degrees but less than 180 degrees is obtuse.</p>  	<p>Lines of symmetry may be horizontal, vertical or diagonal. Some 2D shapes will have no lines of symmetry and some 2D shapes will have multiple lines of symmetry.</p> <p>A square has four lines of symmetry.</p>  <p>A rectangle has two lines of symmetry.</p>  <p>An equilateral triangle has three lines of symmetry.</p>  <p>An isosceles triangle has one line of symmetry.</p>  <p>A rhombus has two lines of symmetry.</p> 				
Symmetric Figures					
<p>Patterns and shapes can be reflected in a mirror line. Mirror lines can be vertical, horizontal or diagonal.</p> 