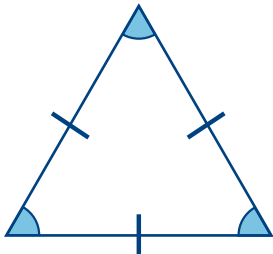
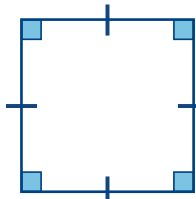
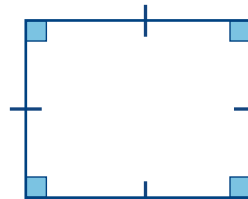
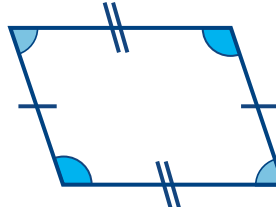
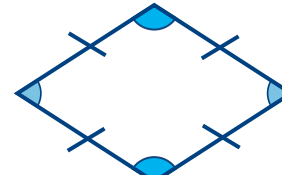
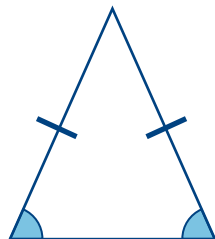
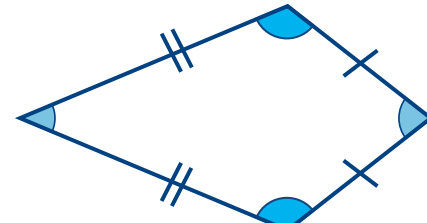
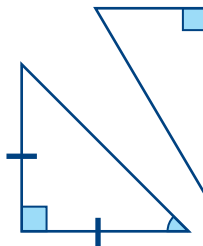
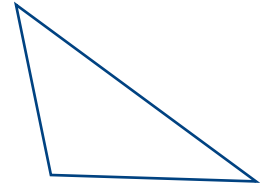
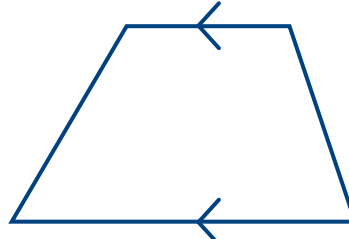


Properties of Shape

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		
obtuse		A rectangle has two pairs of parallel, equal sides and four right angles. A rectangle is also a parallelogram. 
horizontal		
vertical		A parallelogram has two pairs of parallel, equal sides and opposite equal angles. 
diagonal		
parallel	An isosceles triangle has two sides of equal length and two angles of equal size. 	A rhombus has four sides of equal length and opposite equal angles. A rhombus is also a parallelogram. 
perpendicular	A right-angled triangle always has one 90° angle.  It can be isosceles or scalene.	
two-dimensional	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. 
polygon		
line of symmetry		
reflection		
mirror line		
isosceles		
equilateral		
scalene		
quadrilateral		
rhombus		
parallelogram		
trapezium		

Angles

An angle is created when two straight lines meet at a point or intersect.

Right angle

The intersection of perpendicular lines creates a right angle.



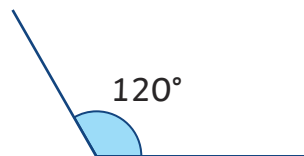
Acute angle

Any angle measuring more than 0 degrees and less than 90 degrees is acute.



Obtuse angle

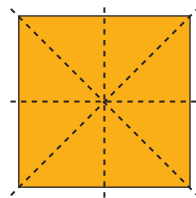
Any angle measuring more than 90 degrees but less than 180 degrees is obtuse.



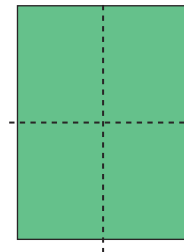
Lines of Symmetry

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.

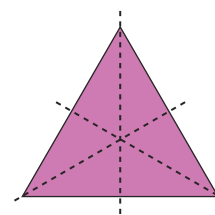
A square has four lines of symmetry.



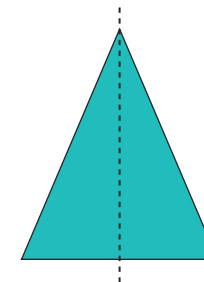
A rectangle has two lines of symmetry.



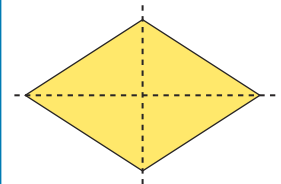
An equilateral triangle has three lines of symmetry.



An isosceles triangle has one line of symmetry.



A rhombus has two lines of symmetry.



Symmetric Figures

Patterns and shapes can be reflected in a mirror line. Mirror lines can be vertical, horizontal or diagonal.

