| Overview |
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| Shape we learn about: |
| -Turns and Angles $\quad$-Right Angles in Shapes |
| -Compare and Order Angles $\quad$-Identify Angles -Triangles |
| -Horizontal and Vertical -Quadrilaterals -Lines of Symmetry |
| -Recognise \& Describe 2-D Shapes -Complete a Symmetric Figure |
| This learning is important because... |
| ...it helps us to understand and organise the things that we see in the <br> world around us. Shapes help us to describe the similarities and <br> differences between objects. |

## Angles of 2-D Shapes

A polygon is a 2-D shape with straight sides that are fully closed.
Polygons can have any number of sides, but they must be straight (not curved).

Triangles Triangles have 3 sides and 3 vertices. The angles in a triangle total $180^{\circ}$.


Equilateral triangles are regular polygons, with 3 sides of equal length. Each of the 3 angles are $60^{\circ}$


Isosceles triangles have two sides of equal length and two angles of the same size.

Scalene triangles have no equal sides or angles.

Right-angled triangles always have one angle of 90 degrees Right-angled triangles can be
isosceles or scalene triangles.


Quadrilaterals are polygons of 4 sides. The angles in a quadrilateral total $360^{\circ}$

Squares and rectangles have 4 right angles. Squares have four equal sides whilst rectangle have 2 pairs of equal sides.

arallelograms have two pairs of parallel lines and equal opposite angles.

A rhombus has four sides of equal length and opposite equal angles. A rhombus is a type of parallelogram.

A trapezium has only one pair of opposite parallel sides. A kite has one pair of opposite equal angles and two pairs of opposite equal sides.


## Different Types of Angles

Angles - Angles are created where two lines intersect. The unit for angles is degrees ${ }^{\circ}$. There are $360^{\circ}$ in a full turn.


Acute angles


Obtuse angles
A right angle is created where two perpendicar lines meet. An acute angle is more than 0 degrees and less than 90 degrees. An obtuse angle is more than 90 degrees and less than 180 degrees.

## Key Vocabulary

