## Year - LINES AND ANGLES

## What do I need to be able to do?

By the end of this unit you should be able to:

- Understand/use the sum of angles at a point
- Understand/use the sum of angles on a straight line
- Understand/use equality of vertically opposite angles
Know and apply the sum of angles in a triangle
Know and apply the sum of angles in a quadrilateral


## Keywords

Vertically Opposite: angles formed when two or more straight ines cross at a point
Interior angles: angles inside the shape
Sum: total add all the interior angles together
Convex Quadrilateral: a four-sided polygon where every interior angle is less than $180^{\circ}$
Concave Quadriatera: a four-sided polygon where one interior angle exceeds $180^{\circ}$
I Polygon: a 2D shape made with straight lines
I Scalene triangle: a triangle with all different sides and angles
I | sosceles triangle: a triangle with two angles the same size and two angles the same size
II Right-angled triangle: a triange with a right angle

## Sum of angles at a point The sum of angles around a point is $360^{\circ}$

Other angle rules still apply
Look for straight line sums and angles around a point.


Form equations with information from diagrams:
$2 x-12=42$
$2 x=54$

$x=27^{\circ}$

ISum of angles in triangles



I Sum of angles on a straight line
adiacent angles that share a common point on a line add up to $180^{\circ}$

