

## Year 7 Knowledge Organiser

 angles and Construction

Paralebgram
Opposite sides are parallel

## Savare

all sides equal size all angles $90^{\circ}$
Opposite sides are parallel

## $\begin{array}{ll}1 \\ 1 \\ 1 & \\ 1 & \\ 1 & \\ 1\end{array}$

## Rectangle

all angles $90^{\circ}$
Opposite sides are paralel

## Rhombus

All sides equal size
Opposite angles are equal

Opposite angles are equal Co-interior angles


Don't forget the arrowhead (or delta) which is a very special quadrilateral! It is the only quadrilateral which has an internal reflex angle. It also has 2 pairs of equal adjacent sides and 1 line of symmetry...

## Letter and labeling convention

The letter in the midde is the angle The arc represents the angle

angle Notation: three letters ABC This is the angle at $B=113^{\circ}$

Line Notation: two letters EC
The line that jons E to C

-     -         -             -                 -                     -                         -                             -                                 -                                     -                                         - 




Use standard convention to refer to angles and sides
Draw diagrams from written descruptions
delentipy, describe and construct congruent shapes, including on coordinate axes, by considering rotation, reflection and translation
Describe the properties and definitions of quadrilaterals and triangles
apply the properties of angles at a point, angles at a point on a straight line and vertically opposite angles


## angles

Around a point - sum to $360^{\circ}$

On a straight-line sum to $180^{\circ}$ Vertically opposite angles are equal

In a quadrilateral sum to $360^{\circ}$
In a triangle sum to $180^{\circ}$

## Vertically opposite angles


$J N M=K N L$

## Vertically opposite angles are the same

SIMLLAR VS CONGRUENT


