Year 7 Knowledge Oraaniser -
measures, area and perimeter

## Ubjectives

Use conventional vocabulary and notation to describe 2D. shapes
Use standard convention for labelling and reeerring to sides and angles Draw diagrams from written descriptions
apply the properties and definitions of quadrilaterals and triangles
Use standard units of measure and related concepts llength, area, volume/capacity, mass, time, money, etc.
Calculate perimeters of 2D shapes
Know and applly formulae to calculate area of triangles, parallelograms, trapezia

## Key Vocabulary <br> Edge - a line segment joining one vertex to another

 vertex - where 2 or more edges meetPlane - a flat, two-dimensional surface
Parallel - lines which are equidistant (will never meet)

Perpendicular - lines which intersect at right angles
Polygon - a 2D shape with straight edges
symmetry - a shape is symmetrical when it is identical on both sides about a mirror line

Quadrilateral - a four sided shape
capacity - the maximum volume something can hold
Perimeter - the distance around the outside of the shape


| ${ }^{1}$ Polygons ${ }^{\text {a }}$ (fal he stes and anges |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| I 3 -Transte | 5 | - Pentagon | $\begin{aligned} & 8 \\ & 9 \end{aligned}$ | - Octasan | are the same, it a c regiar |
| 14 -auablideral | 7 | - Hextacaon | 10 | - Deccaoon | polyon |




| Classify angles |  | Measure angles to $180^{\circ}$ | Read fira $0^{\circ}$ |
| :---: | :---: | :---: | :---: |
| $\begin{aligned} & \frac{\text { aate ondes }}{0^{\circ}<\text { ande }<90^{\circ}} \\ & \frac{\text { otbse }}{90^{\circ}<\text { ande }<180^{\circ}} \end{aligned}$ |  |  | an the base <br> ne <br> Remerber to <br> use estimation <br> This is on <br> abtuse anges so <br> between $90^{\circ}$ <br> and $180^{\circ}$ |
| $R \quad \frac{\text { Refix }}{180^{\circ}<\text { ande }<360^{\circ}}$ | $\frac{s t r a d s t i v e ~}{180^{\circ}}$ |  | sure the cross the pant the nes meet |



