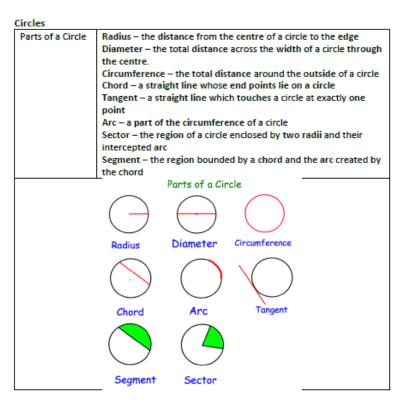
Maths Knowledge Organiser

Area and Perimeter of Polygons Perimeter 8 cm The total distance around the outside of a shape. 5 cm Units include: mm, cm, m etc. P = 8 + 5 + 8 + 5 = 26cmArea The amount of space inside a shape. Units include: mm^{2}, cm^{2}, m^{2} Area of a Length x Width Rectangle 4 cm $36cm^2$ Area of a Base x Parallelogram Perpendicular Height Not the slant height. $A = 21cm^{2}$ Area of a Triangle Base x Height ÷ 2 12 $A = 24cm^2$ Area of a Kite Split in to two triangles and use the method above. $A = 8.8m^2$ $\frac{(a+b)}{} \times h$ Area of a 6 cm Trapezium 5 cm "Half the sum of the parallel side, 16 cm $A = 55cm^2$ times the height between them. That is how you calculate the area of a trapezium" Compound Shape A shape made up of a combination of other known shapes put together.



Volume and Surface Area		
Volume	Volume is a measure of the amount of space inside a solid shape. Units: mm^2, cm^2, m^2 etc.	
Volume of a Cube/Cuboi d	V = Length × Width × Height V = L × W × H You can also use the Volume of a Prism formula for a cube/cuboid.	3 cm 5cm volume = 6 x 5 x 3 = 90 cm ³
Prism	A prism is a 3D shape whose cross section is the same throughout.	Rectangle Prism Cube Prism Pentagonal Prism Hexagonal Prism
Cross Section	The cross section is the shape that continues all the way through the prism.	Cross Section
Volume of a Prism	V = Area of Cross Section × Length V = A × L	Area of Cross Section