GD	OMETRY -	FORMULAS	
Perimeter	Square	P = l + l + l + l = 4l	
	Rectangle	P = l + b + l + b = 2l + 2b	
	Regular polygons	Number of sides x length	
	Irregular shapes	Add lengths of all sides together	
Area	Square	$A = l \times l = l^2$	
	Rectangle	$A = l \times h$	
	Triangle		
	perpendicular height		
	Circle	$A = \pi r^2$ $\pi = \frac{22}{7}$	
Total Surface Area	Cube Area of 6 squares $l^2$	TSA = $6 \times l^2 or 6 l^2$	
	Rectangular prism Area of 2 squares + 4 rectangles h	$TSA = 2(l \times b) + 2(l \times h) + 2(h \times b)$	
	l b		

## GEOMETRY - FORMULAS

Total Surface	Cylinder	$TSA = 2(\pi r^2) + (2\pi r \times h)$		
Area	Area of 2 circles + Area of 1 rect	angle length of rectangle = circumference of circle = $2\pi r$		
	Any other 3-D shape, example:	Calculate area of each face and		
	Triangular prism Area of 2 triangles + Area of 3 recta	add together angles		
Volume	Cube	$V = l \times l \times l = l^3$		
	Prism	$V = l \times b \times h$		
		length x breadth x height		
	Triangular prism	$V = (\frac{1}{2}b \times h) \times H$		
	Area of base (triangle) x height of p	V = $(\frac{1}{2}b \text{ x height of triangle}) \text{ x}$ height of prism		
	Cylinder	$V = \pi r^2 \times h$		
Area of base (circle) x height of cylinder				
	Peidtt of Cylinder			
	Measurement (	Conversions:		
lm = 100 cm lcm		lcm = 10mm		
$1m^2 = 1x 100^2 cm^2 = 10 000 cm^2$ 1		$1 \text{ cm}^2 = 1 \text{ x } 10^2 \text{ mm}^2 = 100 \text{ mm}^2$		
$1m^3 = 1 x$	$100^3 \text{cm}^3 = 1\ 000\ 000\ \text{cm}^3$	$1 \text{ cm}^3 = 1 \text{ x } 10^3 \text{ mm}^3 = 1 \text{ 000 mm}^3$		
Volume: 1	cm <sup>3</sup> = 1ml - always first convert to	o cm <sup>3</sup> and answer in litre or kilolitre		