Area Formulas (units^2)

* Note: $b \perp h$

Rectangle $A = bh$	**Triangle** $A = \frac{1}{2} bh$
Parallelogram $A = bh$	**Trapezoid** $A = \frac{1}{2} h (b_1 + b_2)$ * Note: b_1 & b_2 are the parallel sides
Square $A = bh$ or $A = s^2$	**Circle** $A = \pi r^2$ * Note: $r = d \div 2$ * Note: $C = 2\pi r$ or $C = \pi d$

Surface Area (units^2) & Volume (units^3) Formulas

	# faces/bases shapes	Surface Area (units^2)	Volume (units^3)
Rectangular Prism	6 faces All rectangles	$SA = 2lw + 2lh + 2wh$ SA = Find area of all faces and add together	$V = Bh$ $(B = lw)$ so $V = lwh$
Triangular Prism	5 faces 2 triangles (bases) 3 rectangles	SA = Find area of all faces and add together	$V = Bh$ (B is Area of triangle base: $B = \frac{1}{2} bh$)
Rectangular Pyramid	5 faces 4 triangles 1 rectangle (base)	SA = Find area of all faces and add together	$V = \frac{Bh}{3}$
Triangular Pyramid	4 faces 4 triangles	SA = Find area of all faces and add together	$V = \frac{Bh}{3}$
Cylinder	# bases & shape only 2 circle bases	$SA = 2\pi r^2 + 2\pi rh$	$V = \pi r^2 h$
Cone	# bases & shape only 1 circle base		$V = \frac{\pi r^2 h}{3}$
Sphere			$V = \frac{4\pi r^3}{3}$