

## FORMULA CHART

Perimeter	square	$P = 4s$
	rectangle	$P = 2(l + w)$
Circumference	circle	$C = 2\pi r$
Area	square	$A = s^2$
	rectangle	$A = lw$ or $A = bh$
	triangle	$A = \frac{bh}{2}$
	trapezoid	$A = \frac{1}{2}(b_1 + b_2)h$
	circle	$A = \pi r^2$
Surface Area	cube	$S = 6s^2$
	cylinder (lateral)	$S = 2\pi rh$
Volume	rectangular prism	$V = lwh$
	cylinder	$V = \pi r^2 h$
	cube	$V = s^3$
Pythagorean Theorem	right triangle	$a^2 + b^2 = c^2$
Distance Formula		$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
		$d = rt$
Midpoint Formula		$M = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$
Slope of a Line		$m = \frac{y_2 - y_1}{x_2 - x_1}$
Quadratic Formula		$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Slope-Intercept Form of an Equation		$y = mx + b$
Point-Slope Form of an Equation		$y - y_1 = m(x - x_1)$
Standard Form of an Equation		$Ax + By = C$