ADVANCED GEOMETRY: AREA REFERENCE

VISUAL	POLYGON/SHAPE	STANDARD FORMULA	VARIABLE KEY
Circle	**Circle**	$A = \pi r^2$	r = radius
Triangle	**Triangle**	$A = \frac{1}{2}bh$	b = base, h = height
Para	**Parallelogram**	$A = bh$	b = base, h = height
Trap	**Trapezoid**	$A = \frac{1}{2}(a+b)h$	a,b = parallel sides
Rhomb	**Rhombus**	$A = \frac{1}{2}(d_1 d_2)$	d = diagonals
Poly	**Regular Polygon**	$A = \frac{1}{2}ap$	a = apothem, p = perimeter
Ellipse	**Ellipse**	$A = \pi ab$	a,b = semi-axes

** All measurements must be in the same units before calculation. Area results are expressed in square units (u^2).*