



# GEOMETRY QUICK GUIDE 5: 3D SHAPE FORMULAS

## 3D SHAPES

All 3d shapes can be described in terms of their faces, vertices and edges.

Face - a flat or curved surface

Edge - line where 2 faces meet

Vertex - point where 3 or more edges meet

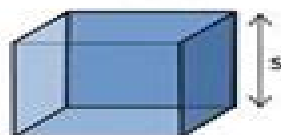


## CUBE

**Volume** =  $s^3$

**Surface area** =  $6s^2$

where  $s$  is the length of one side



## CUBOID (RECTANGULAR PRISM)

**Volume** =  $\ell \times w \times h$

**Surface area** =  $2\ell h + 2\ell w + 2wh$

where  $\ell$  = length,  $w$  = width,  $h$  = height



## PYRAMIDS

**Volume of a general pyramid** =  $\frac{1}{3} Ah$

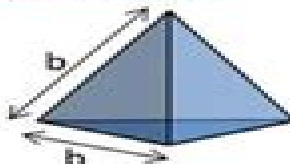
where  $A$  = base area and  $h$  = height



## REGULAR TETRAHEDRON

**Volume** =  $b^3 / 6\sqrt{2}$

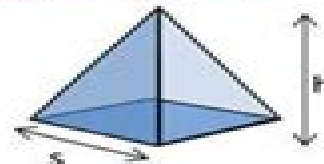
**Surface area** =  $\sqrt{3}b^2$



## SQUARE PYRAMID

**Volume** =  $\frac{1}{3} s^2 h$

**Surface area** =  $s^2 + 2sh$

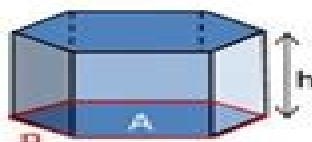
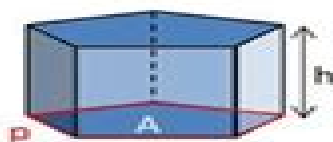


## PRISMS

**Volume of any prism** =  $Ah$

**Surface area of a closed prism** =  $2A + (h \times p)$

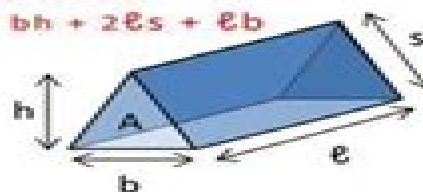
where  $A$  = base area,  $h$  = height,  $p$  = base perimeter



## TRIANGULAR PRISM

**Volume** =  $A\ell$  or  $\frac{1}{2}bh\ell$

**Surface area** =  $bh + 2\ell s + \ell b$



## SPHERES

**Volume** =  $\frac{4}{3} \pi r^3$

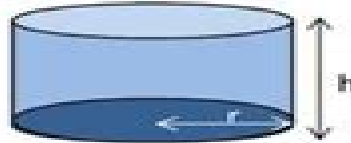
**Surface area** =  $4\pi r^2$



## RIGHT CYLINDER

**Volume** =  $\pi r^2 h$

**Surface area** =  $2\pi r(r + h)$



## RIGHT CIRCULAR CONE

**Volume** =  $\frac{1}{3} \pi r^2 h$

**Surface area** =  $\pi r(r + s)$



# Geometry Hs Mathamstics Unit Lesson Key

**Sabine Zange**



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