

# GEOMETRY QUICK GUIDE 5: 3D SHAPE FORMULAS

#### **3D SHAPES**

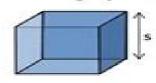
All 3d shapes can be described in terms of their faces, vertices and edges.

Face - a flat or curved surface Edge - line where 2 faces meet Vertex - point where 3 or more edges meet



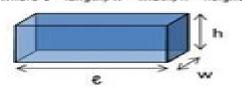
#### CUBE

Volume = s<sup>3</sup>
Surface area = 6 s<sup>2</sup>
where s is the length of one side



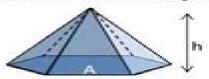
#### **CUBOID (RECTANGULAR PRISM)**

Volume =  $\& \times w \times h$ Surface area = 2&h + 2&w + 2whwhere & = length, w = width, h = height



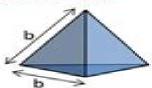
#### **PYRAMIDS**

Volume of a general pyramid =  $\frac{1}{3}$  Ah where A = base area and h = height



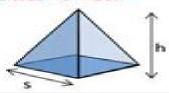
#### REGULAR TETRAHEDRON

Volume = b<sup>3</sup>/6V2 Surface area = V3b<sup>2</sup>



#### SQUARE PYRAMID

Volume = 1/3 s<sup>2</sup>h Surface area = s<sup>2</sup> + 2 sh

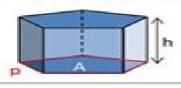


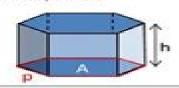
#### PRISMS

Volume of any prism = Ah

Surface area of a closed prism = 2A + (h x p)

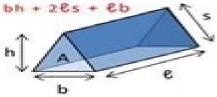
where A = base area, h = height, p = base perimeter





#### TRIANGULAR PRISM

Volume = A € or ½ bh € Surface area = bh + 2 €s + €b



#### SPHERES

Volume = 4/3 nr<sup>3</sup> Surface area = 4nr<sup>2</sup>



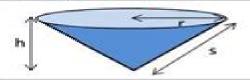
#### RIGHT CYLINDER

Volume =  $nr^2h$ Surface area = 2nr(r+h)



#### RIGHT CIRCULAR CONE

Volume = 1/3 nr<sup>2</sup>h Surface area = nr (r + s)



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**Camilla Rothe** 

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