

## VOLUME OF SOLIDS

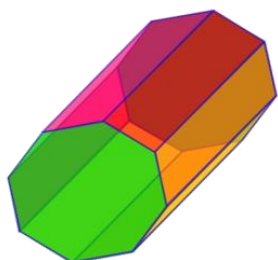
You should know how to use each of the formulae below.

You should be able to calculate a volume give the dimensions of the shape.

You should be able to calculate a dimension when given the volume and any other dimensions.

You should be able to calculate the volume of a composite shape.

### Volume of a Prism

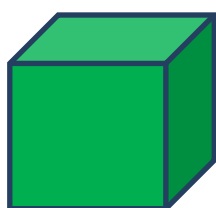


$$V = A h$$

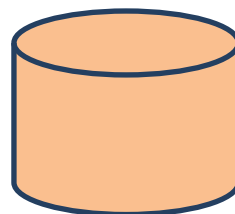
### Special Prisms



$$V = l b h$$

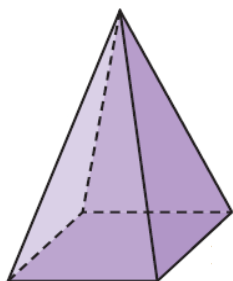


$$V = l^3$$



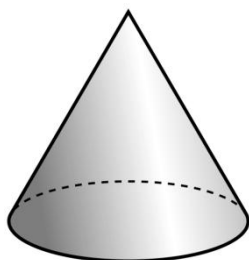
$$V = \pi r^2 h$$

### Volume of a Pyramid



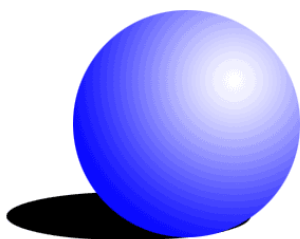
$$V = \frac{1}{3} A h$$

### A Special Pyramid



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

### Volume of a Sphere



$$V = \frac{4}{3} \pi r^3$$

## Volume of Solids Practice

[http://www.cimt.plymouth.ac.uk/projects/mepres/book9/bk9i9/bk9\\_9i4.html](http://www.cimt.plymouth.ac.uk/projects/mepres/book9/bk9i9/bk9_9i4.html)

Answer question on volume.

[www.supermathsworld.com](http://www.supermathsworld.com) Ask your teacher for login details.

Select SHAPE from the options.

Select CUBOIDS from the menu. Try on Easy and Medium level.

Select VOLUME from the menu. Try on Easy, Medium and Hard level.

[http://www.bbc.co.uk/bitesize/standard/maths\\_i/measure/volume/revision/1/](http://www.bbc.co.uk/bitesize/standard/maths_i/measure/volume/revision/1/)

Revise volume. Try the testbite.

[http://www.bbc.co.uk/bitesize/standard/maths\\_ii/measure/volume\\_comp\\_solids/revision/1/](http://www.bbc.co.uk/bitesize/standard/maths_ii/measure/volume_comp_solids/revision/1/)

Revise volume. Try the testbite.