Y10 FOUNDATION HT3B2 Volumes and Surface Areas of Prisms & Curved Shapes and Pyramids

What do I need to be able to do?

By the end of this unit you should be able to:

- Name 2D & 3D shapes
- Recognise Prisms
- Sketch and recognise nets
- Draw plans and elevations
- Find areas of 2D shapes
- Find Surface area for cubes, cuboids. triangular prisms and cylinders
- Find the volume of 3D shapes

. K<u>eywords</u>

2D: two dimensions to the shape e.g. length and width

3D: three dimensions to the shape e.g. length, width and height

Vertex: a point where two or more line segments meet

Edge a line on the boundary joining two vertex

Face: a flat surface on a solid object

Cross-section: a view inside a solid shape made by cutting through it

Plan: a drawing of something when drawn from above (sometimes birds eye view)

Perspective: a way to give illustration of a 3D shape when drawn on a flat surface.

Name 3D shapes













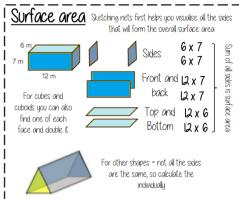


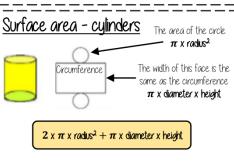
Volumes — cube units

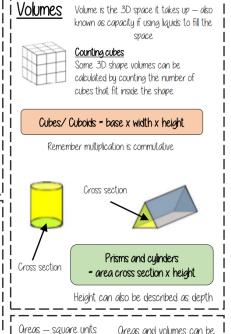




Square based







left in terms of pi π

Missing:

Sectors

Pyramids

Cones

Spheres