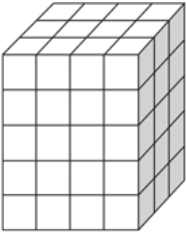
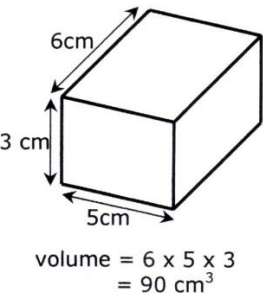
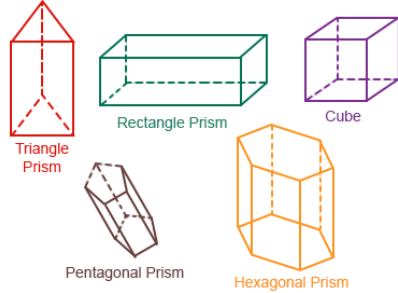
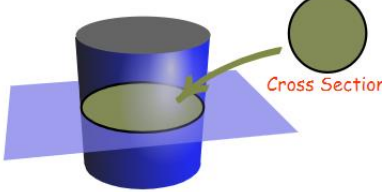
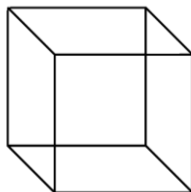


## Topic: Volume and Surface Area

Topic/Skill	Definition	Example
1. Volume	Volume is a measure of the amount of <b>space inside</b> a solid shape.  Units: $mm^3$ , $cm^3$ , $m^3$ etc.	
2. Volume of a Cube/Cuboid	$V = \text{Length} \times \text{Width} \times \text{Height}$ $V = L \times W \times H$  You can also use the Volume of a Prism formula for a cube/cuboid.	
3. Prism	A prism is a 3D shape whose <b>cross section is the same</b> throughout.	
4. Cross Section	The <b>cross section</b> is the <b>shape that continues</b> all the way <b>through the prism</b> .	
5. Properties of Solids	<b>Faces = flat surfaces</b> <b>Edges = sides/lengths</b> <b>Vertices = corners</b>	A cube has 6 faces, 12 edges and 8 vertices. 

Surface Area

This is the area of each face. Imagine working out the area of wrapping paper needed to cover the shape.

Label each face

Units are in  $cm^2$

Calculate the area of each face  
Add each area to find the total