Maths



I. Cube	2. 3D Shapes	3. Geometric Language			
1 ³ = 1			Faces are the flat surf solid 3D shape. An edge is a line segr two faces meet.	aces on a nent where	The cross-section of a prism is the shape revealed by a straight line cut through it e.g. the cross section on a cube is a square
2 ³ = 8	Cube Cuboid	Sphere Triangular Prism	A vertex is a corner p edges or line segment vertex can be on a 2D	oint where s meet. A or 3D shape.	Polygons are 2D shapes made by three or more straight sides.
$3^3 = 27$			The plural of a vertex	is vertices.	Plan view is the view of an object from above.
4 ³ = 64			A prism is a 3D shape uniform cross-section, faces of a prism are th	e with a The two end le same and	Side elevation is the view of an object from a side.
5 ³ = 125	Cylinder Square based To pyramid	etrahedron Cone	the other faces are red a cube is a prism, but is not.	ctangles. E.g. a tetrahedron	Front elevation is the view of an object from the front.
6 ³ = 216	4. Volume and Surface Area	5. Congruency		6. Constr	ructions
7 ³ = 343	Volume is the amount of space taken up by a 3-dimensional object.	Congruent shapes are id and size. Their lengths an equal, but one shape may	lentical in shape nd angles are / be turned or	A locus is rule e.g. ar	a path of points that follow a e a set distance from a point.
8 ³ = 512	To find the volume of a prism you multiply the area of the cross section by the depth.	flipped. e.g. these triangles	38cm 35cm 50cm 875	Loci is the Equidistar	plural of locus. nt points are the same distance
9 ³ = 729	Volume is measured in cubic units e.g. cm ³	We mostly look at congru	ent triangles.	from a poir You bisec t	nt. t an angle or bisect a line by
10 ³ = 1000	Surface area is the total area of all the faces for a 3-dimensional shape.	you must use one of the f	our reasons:	Cutting it in Perpendic	to two equal parts. : ular lines intersect at a right
11 ³ = 1331	Surface area is measured in square units e.g. m ²	SSS (Side, Side, Side) – All the sides are the same. side aright sides	an angle and another re the same size and same order	Some exar	nples of constructions are:
12 ³ = 1728	A net is a pattern of polygons that you can fold to make a model of a 3D shape.	ASA (Angle, Side, Angle) – An angle, a side, and	Right angle, enuse, Side) – There	 A perpe Perpend Constru 	ndicular bisector dicular line from a point cting different types of
	A net can be used to calculate the surface area of a 3D shape.	another angle are the is a rig same size and in the the hy same order. side a	int angle and potenuse and another re the same size.	triangles	5