


Subject	Year	Month	
Mathematics	10	May	
Topic:			
3D forms and volume			3 lessons
Content (Intent)			
Prior Learning Year 10 Perimeter and area May Year 9 Surface area of prisms January		Future Learning Year 11 Circles, cylinders, cones & spheres December	
Objectives <ul style="list-style-type: none"> Identify and name common solids: cube, cuboid, cylinder, prism, pyramid, sphere and cone; Sketch nets of cuboids and prisms; Recall and use the formula for the volume of a cuboid; Find the volume of a prism, including a triangular prism, cube and cuboid; Calculate volumes of right prisms and shapes made from cubes and cuboids; Estimate volumes etc by rounding measurements to 1 significant figure; Convert between metric volume measures; Convert between metric measures of volume and capacity e.g. 1ml = 1cm³. 			
Pedagogical notes (implementation)		How will understanding be assessed & recorded (Impact)	
Discuss the correct use of units. Drawings should be done in pencil. Consider 'how many small boxes fit in a larger box'-type questions. Practical examples should be used to enable students to understand the difference between perimeter, area and volume.		End of half term no End of Year Year 11 mocks in November	
		How can parents help at home? MathsWatch clips Qualification KS3: G12abc, G21a, G25a Qualification KS4: 43, 44, 112, 115, 119	
Further reading/discussion			
Reading / Enrichment http://passyworldofmathematics.com/big-measurements/		Literacy	Numeracy Links
			Careers Links Designer Product designer Architects Builder Fashion designer