


Subject	Year	Month		
Mathematics	11	November		
Topic:				
Plans, elevations and nets				3 lessons
Content (Intent)				
Prior Learning Year 10 3D forms and volume	Future Learning			
Objectives <ul style="list-style-type: none"> • Understand clockwise and anticlockwise; • Draw circles and arcs to a given radius or given the diameter; • Measure and draw lines, to the nearest mm; • Measure and draw angles, to the nearest degree; • Know and use compass directions; • Draw sketches of 3D solids; • Know the terms face, edge and vertex; • Identify and sketch planes of symmetry of 3D solids; • Use isometric grids to draw 2D representations of 3D solids; • Make accurate drawings of triangles and other 2D shapes using a ruler and a protractor; • Construct diagrams of everyday 2D situations involving rectangles, triangles, perpendicular and parallel lines; • Understand and draw front and side elevations and plans of shapes made from simple solids; • Given the front and side elevations and the plan of a solid, draw a sketch of the 3D solid. 				
Pedagogical notes (implementation)	How will understanding be assessed & recorded (Impact)			
This is a very practical topic, and provides opportunities for some hands-on activities. Whilst not an explicit objective, it is useful for students to draw and construct nets and show how they fold to make 3D solids, allowing students to make the link between 3D shapes and their nets. This will enable students to understand that there is often more than one net that can form a 3D shape.	End of half term no End of Year 2nd mocks in Feb & March			
	How can parents help at home? MathsWatch clips Qualification KS3: G10ab, G12abc Qualification KS4: 43, 44, 46ab, 51			
Further reading/discussion				
Reading / Enrichment	Literacy	Numeracy Links	Careers Links Architect Graphic designer Landscape gardener	