

Topic	Lesson Content (Order)	What do pupils need to know	Skills utilised / subject disciplines	Cross Curricular Links / Transferable knowledge.	Assessment
Learning Outcome 1: Be able to generate design proposals using a range of techniques	Learning Outcome 1: Be able to generate design proposals using a range of techniques	Hand-drawing techniques	to design and present ideas and concepts, i.e. freehand sketching in 2D and 3D, rendering using shade, tone and texture	Maths Art <ul style="list-style-type: none"> <li>Independence / Resilience</li> <li>Analysing Information.</li> </ul> Extended writing.	12 marks
		Annotation and labelling techniques.	demonstrate design ideas (e.g. show key features, functions, dimensions, materials, construction/manufacture methods, access to components, areas for further investigation)	<ul style="list-style-type: none"> <li>Independence / Resilience</li> <li>Analysing Information.</li> </ul>	18 marks
		Use of ICT software.	to produce, modify and enrich design proposals (e.g. text, graphics)	ICT <ul style="list-style-type: none"> <li>Independence / Resilience</li> <li>Analysing Information.</li> </ul>	
Learning Outcome 2: Know how to develop designs using engineering drawing techniques and annotation	Learning Outcome 2: Know how to develop designs using engineering drawing techniques and annotation	Techniques to produce technical drawings	techniques to produce technical drawings, i.e. o 3D engineering drawings (e.g. isometric and oblique, exploded views, assembly drawings) o 2D engineering drawings (e.g. 3rd angle orthographic	Maths <ul style="list-style-type: none"> <li>Independence / Resilience</li> <li>Analysing Information.</li> </ul>	12 Marks
Learning Outcome 3: Be able to use Computer Aided Design (CAD) software and techniques to produce and communicate design proposals	Learning Outcome 3: Be able to use Computer Aided Design (CAD) software and techniques to produce and communicate design proposals	CAD applications to produce and communicate design proposals	(e.g. draughting, 3D modelling, rendering, assemblies, animation) <ul style="list-style-type: none"> <li>techniques used to communicate design proposals (e.g. display boards, models, PowerPoint)</li> </ul>	ICT <ul style="list-style-type: none"> <li>Independence / Resilience</li> <li>Analysing Information.</li> </ul>	18 Marks