



DT TIMBERS (YEAR 10)- CURRICULUM PLANNING SEQUENCE

Subject	Year	Term	Term	Theory	Theory	Practicals	Other
GCSE DT Timbers	Year 10	Term 1 - 28hrs	Timbers theory & Moneybox practical	Description of Material's Properties	Hardwoods	Introduction- Moneybox/ CAD demo	Introduction - expectations & admin
				Softwoods Sources of Timber	Manufactured boards The physical characteristics of Timber	CAD H&S/ Glue veneers	isometric drawing Oblique drawing
		Term 2 - 24hrs	Core theory & Caddy practical project	Social Footprint Selection of Timber Social, cultural and ethical factors Forces and stresses Stock form and sizes Scales of production	Deforestation Cost factors Social, cultural and ethical factors Forces and stresses Machinery Techniques for quantity production	Cut frame Dowel/ half lap joint finger joint mortise slot/ bung	one point perspective two point perspective 1st angle orthographic 3rd angle orthographic exploded drawing assembly drawing
Hand tools for marking Shaping –drilling machinery Preparation of wood Wood joints Surface treatments exam	Shaping –drilling tools Cutting Fabricating and constructing Assembling and ironmongery Maths Glossary			glue frame Sand and varnish assessment	mindmap/research plan situation/client brief research initial deisgns card templates evaluation against designs		
Term 3 - 24 hrs	Coursework	Expectations of coursework (1) Mindmap (1) Type up page 1 Type up page 2 Student research Type up page 4 Type up page 5	1.1 The impact of new and emerging technologies 1.2 Evaluating new and emerging technologies to inform design decisions 1.3 Energy: generation, storage and choosing appropriate sources 1.4 Smart and composite materials, and technical textiles 1.5 Mechanical devices used to product movement 1.6 Electronic systems 1.7 Programmable components 1.8 Categorisation of ferrous and non-ferrous metals 1.9 Papers and boards 1.10 Thermoforming and thermosetting polymers 1.11 The categorisation of fibres, and textiles 1.13 All design and technological practice takes place within contexts which inform outcomes 1.14 Challenges that influence the processes of design and making 1.15 Investigate and analyse the work of professional and companies to inform design 1.16 Use of different design strategies 1.16 Use of different design strategies 1.17 Using communication techniques to present design ideas		mark sides and cut finish sides and glue joints on front joints on back middle joint assembly check glue and internals sand black board and frame vacuum forming assessment	final design 3rd angle orthographic planning side section setup photo diary side section setup LCA exam specification writing evaluation skills modification skills development skills development skills exam exam	
				analysis of exam theme (1) Type up page 1 Ergonomics and anthropometrics Types of research Student research Brief and specification Add depth to coursework	context, mind map, research plan siutation, client profile Type up page 3 Add depth to coursework		