

Key Stage 3								
Year 7		Year 8		Year 9				
9 - 12 week rotation	<b>Topics</b>	<b>Topics</b>	Autumn term	<b>Topics</b>	Spring term	<b>Topics</b>	Summer term	
	Timbers	Polymers		Sketching and modelling		Timbers		Polymers
	Designing for teenagers	Electronics		Paper and boards		Design movements		
	Sustainability	Sustainability	Communication of ideas	working with timbers				
	Health and safety	Health and safety (recap)						
	<b>End points</b>	<b>End points</b>	<b>End points</b>	<b>End points</b>	<b>End points</b>			
	Practical skills working with timber. Knowledge and understanding of environmental impacts and the design process	Practical skills: soldering and working with polymers. Knowledge and understanding of design decisions and building on knowledge of the design process	Practical skills: using modelling techniques to showcase ideas in 3D. Building on communication of ideas using technical techniques	Practical skills: working with timber recap. Quality assurance of making Research skills: presentation and distilling of.				
	<b>Key Vocab</b>	<b>Key Vocab</b>	<b>Key Vocab</b>	<b>Key Vocab</b>	<b>Key Vocab</b>			
	Timbers, health and safety, tenon, coping saw, sustainability	Soldering, components, capacitor, resistor, LDR	Perspective, vanishing points, orthographic, isometric, freehand	moodboard, art deco, nouveau, memphis, streamlining, Bauhaus				
<b>Main assessments</b>	<b>Main assessments</b>	<b>Main assessments</b>	<b>Main assessments</b>	<b>Main assessments</b>				
Contextual challenge	Contextual challenge	Generation of ideas	research of Designers					
Practical work	Practical work	Practical work	Practical work					
Timbers ILT	Polymers ILT							

Key Stage 4								
Year 10			Year 11					
Autumn term	<b>Topics</b>	Spring term	<b>Topics</b>	Summer term	<b>Topics</b>	Summer term		
	Working with timber		Working with metal		Mock NEA		NEA	Revision
	Timber joints		modelling and testing		Research		Research	common technical prin.
	Existing product analysis		Sand casting		Design, model and make		Design, model and make	specialist - timbers
	exploded drawings		communication of ideas		Evaluate		Evaluate	design & make prin.
	<b>End points</b>	<b>End points</b>	<b>End points</b>	<b>End points</b>	<b>End points</b>			
	Practical skills: Joining techniques with timber, recap cutting and use of saws	practical skills: wax modelling, sand casting, shaping and finishing metals	Sections A-F to complete NEA	Sections A-F to complete NEA	Exam questions leading to the final exam			
	<b>Key Vocab</b>	<b>Key Vocab</b>	<b>Key Vocab</b>	<b>Key Vocab</b>	<b>Key Vocab</b>			
	Butt joint, comb joint, dowel joint, mitre joint, exploded drawing	casting (sand, investment, , flux, brazing, pewter	Contextual challenge, research, modelling, evaluation, analysis	Contextual challenge, research, modelling, evaluation, analysis	evaluate, analyse, apply, consider, discuss, define			
	<b>Main assessments</b>	<b>Main assessments</b>	<b>Main assessments</b>	<b>Main assessments</b>	<b>Main assessments</b>			
	Existing product analysis	Design ideas and client feedback	Section by section of NEA with detailed feedback	NEA - 100 marks (50% of final grade)	Exam Questions - 100 marks (50% of final grade)			
	Practical work	Practical work						