Year 10

Theory lessons: 1 hour per week

Timing	Unit Title	Overview	Knowledge	Assessing Understanding
Autumn 1	Workshop	To manufacture a wood-based product	How to use the following tools and equipment	Exam style questions
	familiarisation	to an engineering drawing	safely:	
	(RM Only)		 Drilling machine, drill bits and Forstner bits 	
			Belt sander	
			 Mallet and chisel 	
			Tenon saw	
			Coping saw	
	Graphics student	To manufacture a range of graphic	How to carry out the following processes:	
	familiarisation	sample pieces.	 Cutting and scoring 	
	(Graphics only)		 Printing on card 	
			 Effective joining techniques 	
			 Embossing 	
			Foil blocking	
	Specialist	Introduction to specialist materials	Section B	
	materials 1	 Graphics: Papers and boards 	For the specialist material:	
		 RM: Timber based materials 	 Types and their physical and working 	
			properties.	
			 How to shape and form using cutting, 	
			abrasion and addition.	
			 How to use tools, equipment and processes 	
			to shape, fabricate, construct and assemble	
			high quality prototypes safely and with skill.	
			 Commercial processes. 	
1			The main source and the processes involved	
			in converting it into a workable form.	
			 Stock forms and bought in components. 	

Curriculum Outline 2025-26

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Autumn 2	Specialist materials 2	Continue to develop knowledge of specialist materials: • Graphics: Papers and boards • RM: Timber based materials	 Surface treatments and finishes as well including preparation and application. Section B: Material management Quality control Tolerances Waste Jigs Modifications of properties Forces and stresses Section C: Selection of materials or components / product analysis 	End of unit test Section B: Specialist materials
Spring 1	New and emerging technologies.	Develop knowledge and understanding of the impact of new and emerging technologies on commercial practice and society.	Section A Industry Enterprise People Culture Society Production techniques and systems Design decisions Section B Scales of production Section C The work of others: Apple	Exam style questions

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Spring 2	The environment	Develop knowledge and understanding of a range of environmental issues.	Section A Sustainability Fossil fuels Renewable energy Energy storage systems including: Kinetic pumped storage systems Section B Ecological and social footprint Section C The work of others: Primark and the environment	End of unit test New and emerging technologies & specialist materials.
Summer 1	The environment	-Revision for EoY exam -Continue to develop knowledge and understanding of a range of environmental issues.	Section A	EoY exam

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Summer 2	Materials: Core	Develop a basic knowledge of materials	Section A	Exam style questions
		beyond the area of specialism	Classification, properties and uses of materials	
			within the following groups:	
			 Metals and alloys 	
			 Polymers 	
			 Textiles 	
			 Timber based materials (Graphics only) 	
			 Papers and boards (RM only) 	

Year 10

Practice NEA (Design and make project) / NEA Lesson: 1 hour per week

Timing	Unit Title	Overview	Knowledge & Skills	Assessing Understanding
Autumn 1 to Summer 1	Design and make project RM context: Lighting- In style of a one of the following designers:	A design and make project to develop: Designing skills Manufacturing skills Familiarity with the NEA criteria.	 To develop the following skills: Context Analysis Research into and analysis of the work of others Writing a design brief and a well justified specification Generation of design ideas Communication of design ideas Development through modelling Development through testing and trialling Generating final drawings Manufacturing in the specialist material Analysis and evaluation 	Practice NEA against GCSE assessment criteria

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Summer 2	Non-exam assessment (NEA) 50% of GCSE	NEA Sections A & B	 Context analysis Research into client wants and needs Research into the work of others Analysis and evaluation of research Concluding research findings Using research findings to inform a concise design brief and well justified design specification. 	NEA
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