

GCSE – YEAR 10 – DT – CURRICULUM OPVERVIEW

CURRICULUM MAP

Autumn Term		Spring Term		Summer Term	
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key Themes	Key Themes	Key Themes	Key Themes	Key Themes	Key Themes
New emerging technologies	Informing design decisions	Materials, devices & systems	Material types	Designing principles	Timbers
1 -Industry and enterprise	1-Critical evaluation of	1-Modern and smart	1-ferrous and non-ferrous	1- Social and economic	1-Sources, origins and
2- Sustainability and the	technologies.	Materials	metals.	challenge	properties.
environment	2- contemporary and future	2- composite materials.	2-Papers and Boards.	2- The work of others	2-selection and
3- People culture and	scenarios.	3- Technical Textiles	3-Polymers.	3- Avoiding design fixation	reinforcement of
society	3-Ethical and environmental	4- Mechanical devices	4- Textiles.	4-Developing design ideas.	materials.
4 – Production techniques	perspectives.	5- Electronic systems	5- Natural and		3-Material stock forms and
and systems.	<u>Energy</u>	6- programmable	manufactured timbers.		production.
	1-Energy generation.	components.			Material processing and
	2-powering systems.			Unit assessment	finishing.
Unit assessment		Unit assessment			
	Unit assessment		Unit assessment	Prepare for the End of Year	Unit assessment
				exams	
Assessment /	Assessment /	Assessment /	Assessment /	Assessment /	Assessment /
Composite Tasks	Composite Tasks	Composite Tasks	Composite Tasks	Composite Tasks	Composite Tasks
Focussed practical tasks	Lighting project	Trinket box	Branding project for local	Metacognition	Contextual challenges
1-Timber jointing	Soldering processes	2D CAD	industrial company -	Context based project	Investigate the 6
techniques.		Laser cutting and comb	Unilever. 3D packaging of a	providing students with	contextual challenges
2-Laminating timber.		jointing of a hinged container	new product from one of	freedom to drive project	issued by the exam board
3- Turning processes with			their range	forward. Theme is - How do	for the NEA unit 2
the Lathe	Desk Tidy Project			we educate youngsters about	
	Introduction to materials,	Group work, Vietnam,	Introduction to	the value of saving money?	
Desk Tidy Project	workshop, practices, tools,	recycling system design. The	Mechanical and Control /		
Prototyping using card, hand	and processes. Working	design of a renewable energy	electronic Systems (revisit		
modelling including	with timber, plastics and	system for Easter Island. The	NETs) Zombie Apocalypse		
			1 .		
lasercutting processes.	metals. Accuracy, Quality	redesign of a go-kart using	Automated House		
lasercutting processes. Multimedia Design (timber /	metals. Accuracy, Quality Assurance and Quality	redesign of a go-kart using green energy, modern,	Automated House Protection Mechanical		