

Year: 10 Subject: Design & Technology



Term	Week	Focus	Summary	Learning Outcomes	Learning skills
Term 1.1	1	Introduction to GCSE course.	Assessment objectives.	Understand the components and assessment objectives of GCSE pathway.	Collaborative learning Critical thinking
	2	Energy	How energy is generated and stored in order to choose and use appropriate sources to make products and power systems.	Develop knowledge in how energy is generated to make products and power systems.	Hard working Collaborative working
	3	New and emerging technologies	How the critical evaluation of new and emerging technologies informs design decisions; considering contemporary and potential future scenarios: Ethics and The Environment.	Evaluate new and emerging technologies and their impact on the environment.	Connections finding Agile thinking
	4	New and emerging technologies	The impact of new and emerging technologies.	Evaluate the impact of technology within society.	Connection finding Automaticity
	5	Smart & Modern materials	Developments in modern and smart materials.	Investigate and understand how smart & modern materials work to an external stimulus and how they are used in the modern world.	Connection finding
	6	composite materials and technical textiles.	Developments in the contents of composite materials and technical textiles.	To explore the developments in the contents of composite materials and technical textiles. Then to identify how they are used in products and what makes them appropriate for use.	Connection finding Agile thinking

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	1	Mechanical Devices	The functions of mechanical devices used to produce different sorts of movements, including the changing of magnitude and direction of course.	Explore the functions of mechanical devices.	Critical thinking Hard working
	2	Electrical Systems	How electronical systems provide functionality to products and processes, including sensors and control devices to response to a variety of inputs, and devices to produce a range of outputs.	Explore how electrical systems provide functionality to various products.	Collaborative working Agile thinking
1.2	3	Ferrous and non- ferrous metals	The categorization of the types, properties and structure of ferrous and non-ferrous metals.	compare the differences between ferrous and non-ferrous metals.	Connection finding Hardworking
Tern	4	Thermoforming and thermosetting polymers	Properties and structure of thermoforming and thermosetting polymers, the structure of natural, synthetic, blended and mixed fibers, woven and non-woven and knitted textiles.	Explore the properties and structure of various materials.	Connection finding Hardworking
	5	Natural and manufactured timbers	types, properties and structure of natural and manufactured timbers.	Explore the properties and structure of timber.	Collaborative learning Hardworking
	6	Environmental social and economical challenges	Investigation of challenges, identifying opportunities and constraints that influence the process of design and making.	Investigate the opportunities and constraints of the process of designing and making.	Agile thinking Connection finding

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