Subject	Y10 Threshold Knowledge – Autumn/Spring/Summer term	How to support students'	
		learning	
Tech – Product	Autumn/Spring/Summer Term		
	Understand the properties of materials.	Physical and working	
	2. Recognise the importance of selecting materials based	properties - Material	
	on their properties.	categories and properties -	
	3. Identify a range of mechanical devices used in design.	AQA - GCSE Design and	
	4. Understand how levers can be used in design.	Technology Revision - AQA	
	Understand how structures are developed to respond to different forces and stresses.	- BBC Bitesize.	
	6. Use a range of drawing techniques to communicate	https://www.technologyst udant.com/designare/mat	
	design ideas.	udent.com/designpro/mat intro1.htm	
	7. Know how timber-based materials are cut, shaped and	Types of motion -	
	formed.	Mechanical devices - AQA	
	Work safely to produce a functional product.	- GCSE Design and	
	Ensure precision and accuracy by working within	Technology Revision - AQA	
	tolerances.	- BBC Bitesize.	
	10. Use applied mathematics to mark out successfully.	https://youtu.be/fzljPiPy9	
	11. Know how metal-based materials are cut, shaped and	nw?si=SoCYjQQYrTVeFUdq	
	formed.	https://youtu.be/MIMc2q	
	Recognise a variety of energy sources and how these are used in production.	xlfyo?si=YEo7KkLl1QCOn2	
	13. Know how a system works using a range of inputs and	 Hand drawing techniques 	
	outputs.	GCSE DT.	
	14. Identify a range of designers and the factors which	Timbers - Timber-based	
	effect design.	materials - AQA - GCSE	
	15. Understand the role of ergonomics and	Design and Technology	
	anthropometrics in design.	Revision - AQA - BBC	
	16. Create a prototype to test a design idea.	Bitesize.	
	17. Think iteratively to develop design ideas.	Design and Technology -	
	18. Understand commercial properties and scales of	Health and Safety - BBC	
	production.	Bitesize.	
	19. Recognise how a finish can be used to improve a	Tolerances - Design &	
	materials property. 20. Understand the environmental, social and economic	Technology: AQA GCSE.	
	factors that affect design.	• https://youtu.be/6tZSWFR	
	lactors that affect design.	RFFA?si=jLW-dKThiaLxtoa9	
		Metal-based materials -	
		Metal-based materials -	
		AQA - GCSE Design and	
		Technology Revision - AQA	
		- BBC Bitesize.	
		Energy generation and storage CCSE DT. The	
		storage GCSE DT - The pros and cons of	
		renewables and non-	
		renewables.	
		Systems - Systems	
		approach to designing -	
		AQA - GCSE Design and	
		/ Con George Design and	

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			Technology Revision - AQA - BBC Bitesize.
		•	https://youtu.be/r4lzmUb YX4A?si=VWpYu6UajHRm
			Bljb
		•	https://youtu.be/QsSIV4H 5cDM
		•	Developing prototypes -
			Designing - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize.
		•	Iterative design - Designing - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize.
		•	Scales of Production and Quality Control – GCSE Design and Technology AQA Revision – Study Rocket.
		•	Key factors designers need to consider - Environmental, social and economic challenges - Edexcel - GCSE Design and Technology Revision - Edexcel - BBC Bitesize.
		•	Key factors designers need to consider - Environmental, social and economic challenges - Edexcel - GCSE Design and Technology Revision - Edexcel - BBC Bitesize.