

Subject	Y12 Core Knowledge – Autumn/Spring/Summer term	How to support students' learning
Tech – Product	<p>Autumn Term</p> <ol style="list-style-type: none"> 1. Recognise a range of materials and their properties. 2. Understand materials are tested. 3. Follow simple instructions to build a functional product. 4. Explore a range of materials to explore their working properties. 5. Identify a range of stock forms and where they would be used. 6. Demonstrate a range of design communication techniques. 7. Understand the socio-economic factors affecting design movements. 8. Recognise a variety of designers both past and present and their key aesthetic. 9. Analyse how technology has impacted design outcomes. <p>Spring/Summer Term</p> <ol style="list-style-type: none"> 10. Understand how we can enhance materials to improve their performance qualities. 11. Identify a range of forming, addition and wastage processes. 12. Evaluate a range of finishes and where these applications would be suitably used. 13. Create a detailed design specification for a product. 14. Think iteratively to develop a range of design ideas that fulfil a task. 15. Model a prototype design using a range of methods. 16. Critically evaluate your own design model. 17. Select the correct tools and equipment to produce a functioning prototype. 18. Analyse existing products to understand design decisions. 19. Understand design for manufacture including health and safety. 	<ul style="list-style-type: none"> • https://studyrocket.co.uk/revision/a-level-design-and-technology-aqa/technical-principles/materials-and-their-applications • https://youtu.be/czqc_32i-PM • https://www.thespruce.com/types-of-wood-joints-6822939 • https://www.ilsley.bham.sc.h.uk/wp-content/uploads/2024/10/Design-Technology-Knowledge-Organiser-Paper-1.pdf • https://www.bbc.co.uk/bitesize/guides/zkvny4j/revision/6 • https://www.youtube.com/watch?v=bjEw-mulciA • https://www.hartismere.com/view/1489PC4ZF10.pdf/Design_Movements_Timeline • https://www.hartismere.com/view/1489PC4ZF10.pdf/Design_Movements_Timeline • https://thedesigndhive.co.uk/how-technology-is-changing-the-world-of-design/ • https://youtu.be/aKVzJEGzYCW • https://quizlet.com/gb/799893774/aqa-a-level-design-technology-paper-1-unit-4-classification-of-materials-revision-book-flash-cards/ • https://youtu.be/h7E8LOICjg8 • Writing Design Specifications: Quick Guide — RewiSoft

		<ul style="list-style-type: none"> • Iterative design - Designing - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize • DTBASE Design and Technology Revision - Home page. • A student guide to the A Level independent investigation (Non-examined Assessment - NEA) – RGS. • Design & Technology: Tools and equipment • https://www.bbc.co.uk/bitesize/articles/ztmcqyc • https://youtu.be/QnP7p9iisMs
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