

Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Timbers	Textiles	Papers and Boards	Metals	Plastics	Start NEA
Assessment		Key Concepts/ Skills		Reading	
<p>Students will complete end of topic written assessments each half term.</p> <p>Students will also be assessed on their drawing and practical skills.</p>		<p>Core technical principles</p> <ul style="list-style-type: none"> • New and emerging technologies • Energy generation and storage • Developments in new materials • Systems approach to designing • Mechanical devices • Materials and their working properties <p>Specialist technical principles</p> <ul style="list-style-type: none"> • Forces and stresses • Ecological and social footprint • Sources and origins • Using and working with materials • Scale of production • Specialist techniques and processes • Surface treatments and finishes <p>Designing and making principles</p> <ul style="list-style-type: none"> • Investigation, primary and secondary data • The work of others • Design strategies • Communication of design ideas • Prototype development • Selection of materials and components • Specialist tools, equipment, techniques and processes 		<ul style="list-style-type: none"> - Project brief and specification - Contextual research pages (text + images) - Exam papers - Secondary research - Designer information/fact files - Design work analysis/evaluation - Marks schemes - BUG the question 	
Enrichment		Careers		Useful resources and revision	
<ul style="list-style-type: none"> • Trip to Silverstone 		Product Designer, Industrial Designer, Furniture Designer, Graphic Designer, Interior Designer, Fashion		AQA website for past papers - https://www.aqa.org.uk/subjects/design-and-technology	

Year 10 Curriculum Overview: Design and Technology

<ul style="list-style-type: none">• Trip to Warwick University to take part in the Design and Make challenge• Enrichment clubs after school	Designer, CAD Technician, Design Engineer, Mechanical Engineer, Manufacturing Engineer, 3D Modelling Technician, 3D Printing / Rapid Prototyping Technician, Architectural Technician, Architect, Architectural Designer, Civil Engineer, Quantity Surveyor, Site Technician	technology/gcse/design-and-technology-8552/assessment-resources Seneca learning - https://senecalearning.com/en-GB/ BBC Bitesize - https://www.bbc.co.uk/bitesize/examspecs/zby2bdm/
--	--	---