



Technology Curriculum Overview

Curriculum Intent:

The Design and Technology curriculum delivers and builds on key skills throughout year 7 to year 13 and prepares students with essential skills and knowledge for higher education or working in industry.

Curriculum Rationale:

The curriculum is designed to develop students' character and foster creativity, it encourages students to be inquisitive about design and its impact on the world. It builds communication, analytical and problem-solving skills, that are transferable across the curriculum.

	Autumn 1 /2	Spring 1 /2	Summer 1 /2
Year 7	Design Principles- Calendar Block	Material Investigation- Puzzle	Metal- Animal Lamp
Year 8	Polymers- Mobile Phone Stand	Prototype- Toothbrush	Sustainability- Wind Turbines
Year 9	Metal Fabrication- Coat Hook	Circuits and 2D design- Speaker	Casting- Pendant
Year 10	Unit 1- Interpreting Engineering drawings/ Manufacture/ Drawing Skills	Unit 2- Product Analysis/ Identifying functions/ Communicating designs/ Evaluating designs	Unit 3- Environmental issues/ Material testing and selection/ Mathematical Problem Solving
Year 11	Unit 1- Manufacturing engineering products	Unit 2- Designing Engineering Projects	Unit 3- Solving Engineering Problems
Year 12	Product Design- Component 1- Principles of Design and Technology. Knowledge	Product Design- Component 2- Practice for Independent Design and Make Project	Product Design- Component 2- Practice for Independent Design and Make Project Product Design- Component 1- Principles of Design and Technology- Practice for Exam
Year 13	Product Design- Component 2- Independent Design and Make Project	Product Design- Component 2- Independent Design and Make Project	Product Design- Component 1- Principles of Design and Technology- Exam

Useful Websites to support independent study		
Key Stage 3	Key Stage 4	Key Stage 5
	Include links to: <ul style="list-style-type: none"> Exam Board Spec: WJEC L1-2-VocAward-TA-Engineering-Spec-e Sample Papers: exam-wjec_l1-2-vocaward-ta_engineering_unit-3_sams-e-10-05-23.pdf 	Include links to: <ul style="list-style-type: none"> Exam Board Spec: Topic Guide: https://qualifications.pearson.com/content/dam/pdf/A%20Level/Design%20and%20Technology%20-%20Product%20Design/2017/Teaching%20and%20learning%20materials/GCE_D&T_Topic_Guide_issue_1_October_2018.pdf Sample Papers: Past Paper.pdf Revision Sites: https://www.technologystudent.com/

	<ul style="list-style-type: none">Revision Sites: https://www.technologystudent.com/	<ul style="list-style-type: none">Metals - Ferrous and Non Ferrous PPT (slideshare.net)
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