



2018/19 Curriculum Plan – Design & Technology

	Half Term	Year 7	Year 8	Year 9 (D&T GCSE)	Year 10 (D&T GCSE)	Year 11 (D&T GCSE)
Autumn	1	Product Design: Introduction to the DT Workshop - The Design and Manufacture of a 'Night Light'	Product Design: Clock Face Task The Design and creation of a Clock face to fulfil the needs of a specific target market	Drawing Skills: Isometric & Orthographic Iterative Design Process	CAD/CAM: A task involving the use 2D design and laser cutter. Dice project to teach finger joints and keyring to teach plastics Theory: Core Plastics	Non Exam Assessment: Plan of Initial Ideas / Development of selected design /Modelling of product
	2	Drawing Skills: A crash course in the use of isometric drawing to aide designing and communication.		Bird Box Task: Construction task teaching the ability to work from own working drawings. Theory: Core Timber and in depth knowledge	Drawing Skills: Building on key drawing skills to allow communication design ideas.	Non Exam Assessment: Further developments Working Drawings / Plan of production. Non Exam Assessment: Manufacture
Spring	3	Food Technology: Introduction to Food Technology - Health and Safety, Food preparation and Nutrition. Cooking and Nutrition Sequential tasks to build up knowledge and skills in the kitchen.	Food Technology: A series of individual tasks involving nutritional knowledge and food preparation skills. Skills tasks developing practical techniques for food production.	Presenting Ideas: Use of ICT portfolio, sketching skill and graphical presentation to show ideas Metal working: Bottle Opener Theory: Core Metal	Mechanical Toy Task: The creation of a mechanical toy using mixed materials. Student will discover type of motion and how this can be used with the task. Designing and making for a user. Theory: Mechanical Devices	Non Exam Assessment: Manufacture Non Exam Assessment: Testing / Evaluation
	4			Alessi Brand: Creativity and design tasks. Students will use drawing skills and modelling to communicate design ideas.	Non Exam Assessment: Introduction to NEA. A shortened NEA covering the same elements as in the major project.	Exam Preparation
Summer	5	CAD/CAM: A selection of tasks designed to build skills and confidence in the use of computer software to aide designing. A Key Fob Task allows for both Computer Aided Design (CAD) & Computer Aided Manufacture (CAM).	Core Designing: A introduction to a variety of drawing skills that are required to succeed in Design and Technology at GCSE. Students will build skills and then apply them to a creative design task.	Unit 2 - Energy Generation and Storage: Theory for unit 2 covered. Students prepare a presentation as to power generation options in give situations.	Non Exam Assessment: Start of NEA. Analysis of Task / Plan of the NEA & Context Research.	Exam Preparation
	6			Unit 1 - New and Emerging Technologies: A look at the theory needed to answer exam questions on unit 1.	Non Exam Assessment: General Research. Social / moral / Environmental Issues. Analysis of Research & specifications.	Exam Preparation

Year 7 rotate on a carousel 4 units throughout the year, each lasting 15 lessons. Year 8 rotate on a carousel of 3 units throughout the year, each lasting 19 lessons.

Useful Web sites: <http://www.technologystudent.com/> <http://www.bbc.co.uk/schools/gcsebitesize/design/resistantmaterials/> <http://www.aqa.org.uk/subjects/design-and-technology/gcse/design-and-technology-resistant-materials-4560>