

Design and Technology

<p>Overview of the year: GCSE Design and Technology will prepare students to participate confidently and successfully in an increasingly technological world. Students will gain awareness and learn from wider influences on Design and Technology including historical, social, cultural, environmental and economic factors. Students will get the opportunity to work creatively when designing and making and apply technical and practical expertise.</p> <p>This GCSE allows students to study core technical and designing and making principles, including a broad range of design processes, materials techniques and equipment. They will also have the opportunity to study specialist technical principles in greater depth.</p>		<p>Ways to consolidate and extend your learning in Design and Technology: In addition to discussing learning with your child and monitoring their homework, ensuring your child watches programmes linked to design and technology such as Grand Designs, The Great Interior Design Challenge, The Genius of Design or keeping abreast with the latest technology and trends by reading magazines such as Stuff or T3 will provide them with the broader knowledge they need to access the curriculum. Taking your child to interesting exhibitions and museums on art and design and design technology will inspire them and their own creativity. We recommend Free-Range Exhibition, New Designers, V&A, The London Design Fair, Design Museum and Tate Modern.</p>		
Half Term	Unit title	Knowledge	Skills	Assessment
1	Sweet Dispenser. UNIT 5C METAL BASED MATERIALS	This unit is focused on a making task. Students will work with timber based materials to develop knowledge of selecting and using materials and components for a specific tasks.	Wasting and assembling using timbers and polymers	Students will receive feedback through rubric marking on MS teams on sections of NEA submitted. End of unit exams used to inform students on areas of weakness and re-testing (WWW and EBI)
2	Drawing Skills. UNIT 3 MATERIALS AND THEIR WORKING PROPERTIES	In this unit students will develop their ability to communicate their design ideas and develop a product through prototyping. They will learn how to record and justify design ideas and develop prototypes in response to client wants and needs.	Drawing and modelling skills including Computer Aided Design	Students will receive feedback through rubric marking on MS teams on sections of NEA submitted. End of unit exams used to inform students on areas of weakness and re-testing (WWW and EBI)
3&4	Boom Box. UNIT 4 SPECIALIST TECHNICAL PRINCIPLES	Working with electronic components, systems and fixings students learn to understand that components are available in different forms that perform different functions and when combined in different ways they can solve many complex design problems.	Designing and making complex electronic circuits	Students will receive feedback through rubric marking on MS teams on sections of NEA submitted. End of unit exams used to inform students on areas of weakness and re-testing (WWW and EBI)

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5	Faux NEA. UNIT 5a PAPERS AND BOARDS	Students respond to a design context they have been given and identify and develop a product in response to it. The unit is designed to prepare students for the Non Examined Assessment which they will complete in year 11.	Skills related to section 1&2 of the NEA including research, analysis and development	Students will receive feedback through rubric marking on MS teams on sections of NEA submitted. End of unit exams used to inform students on areas of weakness and re-testing (WWW and EBI)
6	Prep for the NEA UNIT 5B TIMBER BASED MATERIALS	Students identify which topic area they are to study for their final NEA project. Investigations into the project ahead begin with a look into the work of current products and their availability.	Skills related to section 1 of the NEA including research and analysis	Students will receive feedback through rubric marking on MS teams on sections of NEA submitted. End of unit exams used to inform students on areas of weakness and re-testing (WWW and EBI)