

Subject	KS4 Threshold Concepts	How to support students' learning
<p>Year 10</p>	<p>During Year 10 students will complete one design and make project. This has been designed to cover all the elements required for the final GCSE project in year 11. The coursework will be submitted as an e-portfolio.</p> <p><u>Project Aims:</u></p> <ul style="list-style-type: none"> ○ In this project students will identify and analyse the needs of a client who has a small or limited garden space available at home. ○ students will develop proposals for a product to meet one or more of those needs and produce a product that will satisfy that need. ○ Students will work in a range of appropriate media and always ensure that safety is paramount. <p>Term 1, 2 & 3 NEA and revision- deadline is beginning of June. Year 10 students will start the GCSE NEA in June</p> <p>Skills and Processes: Requirements for a successful controlled assessment An understanding of the contextual challenge – Love your Garden Situation analysis Design ideas and mood board Client profile CAD recap of the Inventor software Human factors with designs Product analysis Modelling ideas Annotation and communication of modelling</p>	<ul style="list-style-type: none"> ● Encourage your child to collect primary research to support their coursework. This could be surveys/questionnaires, photographs etc. ● Encourage your child to keep sketching and enhancing design ideas to make them more complex and imaginative. To access the higher marks there must be evidence of this in their coursework. ● Encourage your child to attend Session 3; during this time, they can complete or make improvements to their coursework ● Encourage your child to review the resources often to support their learning here: Year 10 - Portal (ttsonline.net) ● Encourage your child to be safe in the workshop by reviewing the H&S information of the tools and equipment that can be used, found on the curriculum here : Health Safety - Portal (ttsonline.net) ● Encourage your child to practise the Maths element of the course as 15% of the examination will be mathematically based: GCSE - Maths Skills for Design and Technology - Portal (ttsonline.net) ● Encourage your child to revise the theory needed for the examination in year 11, worth 50% of the GCSE grade. Students have been provided with an AQA revision guide, or they can you the revision resources here: GCSE Design and Technology Revision - Portal (ttsonline.net) ●

	<p>Manufacturing specification Demonstrate high quality manufacturing skills Evaluation, testing and modifications</p> <p>Key Vocabulary:</p> <p>Computer Aided Design, Product analysis, Modelling, Design context, Iterative design, Consumer, Existing products. Client needs and wants, ACCESSFM, Situation, Design Brief, 4 Ps, Isometric drawing, Rendering, Inspiration, 3 dimensional, Sociological, Physiological, Psychological, Inclusive/exclusive design, Working triangle, Ergonomics, Anthropometric data, Stereotypes, Regulations/legislation, complexity, imaginative, modelling, testing, manufacturing plan, specification, manufacture, PPE, H&S, Evaluation and testing</p>	
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