

Course Description

Product Design: 3D Design

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A creative course introducing students to a range of designing, modelling, and manufacturing skills and techniques. Students will develop a design solution to a problem that they have identified. You will carry out a research portfolio to develop and design a product of your choice.

As part of the course students will build up a knowledge of materials and production techniques used within the world of industry. You will gain an understanding of how products are manufactured and why they are made in the way they are. You will explore ways in which designers are influenced and develop an understanding of how designs have developed and changed to fit in with the demands of society and the environment to create a positive future.

GCE A Level Course breakdown	
UNIT 1 EXAM 1	<ul style="list-style-type: none">• Written exam: Technical Principals: 2 hours and 30 minutes• 120 marks - 30% of A-level
UNIT 2 EXAM 2	<ul style="list-style-type: none">• Written exam: Designing and making Principals: 1 hour and 30 minutes• 80 marks - 20% of A-level
UNIT 3 NEA	Substantial design and make project. Written or digital design portfolio and photographic evidence of final prototype - Set by Student. <ul style="list-style-type: none">• 100 marks - 50% of A-level

Course Duration: 2 Years

During your A Level you will work in an area of your choice, preferably an area that is your strength, such as wood, metals or polymers, with the opportunity to add electronics or mechanisms.

You will incorporate the skills you have developed in your GCSE to generate designs, prototypes to solve design problems and create a high quality outcome.

This is an opportunity to challenge yourself to make a product that is professional and saleable.

Course Entry Criteria

GCSE Grade 6 or above in the Design and Technology options of resistant materials or graphic communication. Students studying Engineering at GCSE will require a 6+, or the Cambridge National at a L2D or above. It is essential that students obtain at least a grade 5+ in Mathematics and Science as 14% of the course is reliant on mathematical skills.