Course Description

A level Design and Technology
Product Design 3D Design

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 that meets the needs of an identified user, client or market. 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

UNIT 1 **EXAM 1**	• Written exam: Technical Principals:2 hours and 30 minutes • 120 marks - 30% of A-level
UNIT 2 **EXAM 2**	• 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. • 100 marks - 50% of A-level

Course Duration: 2 Years. No AS option for this course.

During you're 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 Design and Technology options of resistant materials, graphic products or product design. Students studying Engineering will require a L2 Distinction. In addition, students will require grades 5 or above in Mathematics and English.

Exam Board: AQA
Specification link: https://www.aqa.org.uk/subjects/design-and-technology/a-level/design-and-technology-7552/specification

SOUTHAM COLLEGE SIXTH FORM