

Technology & Design

Exam Board: Edexcel

ENTRY REQUIREMENTS

Grade C or above in Technology and Design.

COURSE STRUCTURE AND CONTENT

Two units studied in Year 13 for AS Level and two additional units are studied in Year 14 for A2.

YOU WILL STUDY

- Unit 1: Portfolio of Creative Skills.** In this unit students are given the opportunity to develop their creative, technical and practical skills through a series of product investigation, design and manufacturing.
- Unit 2: Design and Technology in Practice.** In this unit students will develop a knowledge and understanding of a wide range of materials and processes used in the field of Design and Technology.
- Unit 3: Designing for the Future.** In this unit students will develop their knowledge and understanding of a range of modern design and manufacturing practices and contemporary design issues.
- Unit 4: Commercial Design.** In this unit students are given the opportunity to apply the skills they have acquired and developed through out their course of study, to design and make a product of their choice. Student must adopt a commercial design approach to their work.

YOU WILL BE ASSESSED IN THE FOLLOWING WAYS

- Unit 1:* Portfolio of Creative Skills. Portfolio based.
(60% of AS and 30% of A2)
- Unit 2:* Design and Technology in Practice. 1½ hour examination.
(40% of AS and 20% of A2)
- Unit 3:* Designing for the future. 2 hour examination. (20% of A2)
- Unit 4:* Commercial Design. Portfolio based. (30% of A2)

SKILLS DEVELOPED

The aims of the course are to develop the following skills:—

- Creativity and innovation
- Recognise and overcome challenges and constraints when designing for production
- An understanding of the influences of product design
- Develop an understanding of contemporary design and technological practices
- Develop an understanding of the influences and constrains of:—
 - Materials and components
 - Health and safety
 - Systems and control
 - Communication of ideas
 - Planning for manufacture

CAREER PROGRESSION

On completion of AS or A2 Technology and Design (Resistant Materials), employers and Universities will recognise that you have the ability to plan, communicate ideas and present information, research suitable materials, manufacturing techniques and production constraints taking into consideration health and safety, commercial practice and quality. Technology and Design provides the underpinning knowledge necessary for a range of occupations or professions including, all types of Engineering (Civil, Electrical, Mechanical etc.), any design related careers, some science and computer based careers.