

TECHNOLOGY

Technoleg



Course Title: Technology
Examination Board: WJEC
Qualification: GCSE)



Product Design

COURSE OUTLINE

A course in Design and Technology offers a unique opportunity for students to identify and solve real problems by designing and making products or systems in a wide range of contexts relating to their personal interests. Design and Technology develops students' interdisciplinary skills, all six key skills and their capacity for imaginative, innovative thinking, creativity and independence.

The specification is based upon the view that design and technology is essentially a practical activity involving the combination of skills with knowledge and understanding in order to design and make quality products. The specification is planned to be sufficiently broad, balanced and relevant to interest all candidates.

Students will have the opportunity to analyse and evaluate situations, design and make products and then assess their performance. They will be provided with the opportunity to work with a range of materials and ICT.

Students will be presented with the subject matter in a stimulating and interesting way to promote discussion and research. They will be given the opportunity to experience the variety of roles involved in design and technology; client, designer, maker, manager, user etc. Students will be encouraged to consider the relationship between technology and society.

Students will design and make products. They will carry out activities related to industrial practices and the application of systems and control within their designing and making of these products.

The specification allows candidates to work in one of the following focus areas:

Resistant Materials Technology

Working with wood, plastic and metal

Textiles Technology

Working with Textile materials

Product Design

Working with a wide range of materials such as plastic, metal, glass and textile materials.

Emphasis is on innovation.

HOW WILL I BE ASSESSED?

UNIT 1: WRITTEN PAPER 2 HOURS (40%)

The papers for all focus areas follow a similar structure.

Section 1: Is designed to be answered in 60 minutes and consists of four questions. These questions are set so as to be accessible to students from all focus areas and will relate to Product Analysis, Overarching Principles, Designers and Practitioners and the Design Process. The quality of written communication will be integrated into question 3 and will require paragraphs or essay style responses.

Section 2: Consists of four questions. These are focus area specific and designed to take 60 minutes to answer.