

# Design and Technology A Level

## Who is the course for?

**The WJEC Eduqas A level in Design and Technology: Product Design offers a unique opportunity in the curriculum for learners to identify and solve real problems by designing and making products or systems.**

Design and technology is an inspiring, rigorous and practical subject. This specification encourages learners to use creativity and imagination when applying iterative design processes to develop and modify designs, and to design and make prototypes that solve real world problems, considering their own and others' needs, wants, aspirations and values.

## What does the course involve?

The subject content for product design is presented under seven main headings: designing and innovation

- materials and components
- processes
- industrial and commercial practice
- product analysis and systems
- human responsibility
- public interaction – marketing and research.

## Modules include:

### Component 1: Design and Technology in the 21st Century

Written examination: 3 hours (50% of qualification). The examination includes a mix of structured and extended writing questions assessing learners' knowledge and understanding of:

- Technical principles
- Designing and making principles along with their ability to analyse and evaluate wider issues in design and technology

### Component 2: Design and make project

Non-exam assessment: approximately 80 hours 50% of qualification

A sustained design and make project, based on a brief developed by the candidate, assessing the candidate's ability to:

- identify, investigate and outline design possibilities
- design and make prototypes
- analyse and evaluate design decisions and outcomes, including for prototypes made by themselves and others

## Assessment Methods

The subject content for GCE A level Design and Technology will be assessed in the written examination and non-exam assessment (NEA).

Design and Technology in the 21st Century Design: Written examination: 3 hours NEA: approximately 80 hours. Each are worth 100 marks and 50% of the course and 100 marks. Calculators may be used in Component 1 and in Component 2.

## Progression Options

Product design is all about creating new three dimensional products through an efficient process of idea generation, development and evaluation. Product designers have an understanding of the relationship between art, science and technology, and have the ability to exploit each of these things in different ways to create new products.

Product Design is an important subject for careers in: Product Design, Industrial Design, Fashion Design, Furniture Design, Industrial Design, Architecture, Engineering, Vehicle Design, Theatre set design, Graphic Design

## Awarding Body

WJEC (Eduqas)