

WJEC/Eduqas Specification: 603/1178/2

Design and Technology

Design and Technology is an inspiring, rigorous and practical subject.

This specification encourages students to use creativity and imagination while applying an iterative design process to design and make prototypes that solve real-world problems, considering their own and others' needs, wants, aspirations and values.



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The A Level in Design and Technology offers an opportunity for students to identify and solve problems through designing and making products.

The specification enables students to identify market needs and opportunities for new products, initiate and develop design solutions and make and test prototypes. Students should acquire subject knowledge in Design and Technology, including how a product can be developed through the stages of prototyping and computer-aided design.

Content Content and Assessment:

Component 1: Design and Technology in the 21st Century

Product Design – Written paper – (50% of A Level) 3 hours

The examination paper will examine students on the following blocks of specification content:

- Technical principles
- Mathematics
- Designing and making principles

The students' ability to analyse and evaluate design decisions and wider issues in Design and Technology will also be assessed.

Component 2: Design and make project

Non-exam assessment: 80 hours (50% of A Level)

This is a sustained design and make project, based on a brief developed by the student, assessing the student's ability to:

- Identify, investigate and outline design possibilities
- Design and make prototypes
- Analyse and evaluate design decisions and wider issues in Design and Technology

A maximum of 80 hours should be devoted to this project. Teachers are required to monitor and confirm that students have completed their project within this time limit.

Entry Requirements:

Whilst it is desirable that students should have studied Design and Technology at GCSE, direct entry at A Level is also possible.

A Level Design and Technology is accepted by all universities for entrance. It is valued as evidence of independent thought, and as a good foundation in subjects like engineering, architecture and design.

Design and Technology qualifications can lead to careers in Product Design, Engineering, Manufacturing, Architecture and Civil Engineering.