

DESIGN & TECHNOLOGY (Product Design) AS Level

Head of Department: Mrs S Davies
Teachers: Mrs S Davies, Mr P Evans
Examination Board: WJEC



Course Outline

AS Level Design and Technology aims to develop your technological understanding and design capability within the subject. You will apply your knowledge of technology and Industrial practices to develop and manufacture innovative high quality products in one or more materials, including wood, textiles, plastic or metal.

A course in Design and Technology offers a unique opportunity in the curriculum 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 and their capacity for imaginative, innovative thinking, creativity and independence.

There are no specific requirements for prior learning, although AS Level D & T offers a natural progression for students who have studied GCSE D & T Textiles, Product Design and Resistant Materials.

Entry Requirements

Students should satisfy the school's minimum requirements of five GCSE grades A* - C and should have some knowledge and understanding of technological processes and creative design.

What Will I Study And How Will I Be Assessed?

AS

DT1: 20% 2 hours
Examination Paper

This paper will assess candidates' knowledge and understanding drawn from the subject content for one focus area listed under:

- 4.1.1 Designing and innovation;
- 4.1.2 Product analysis;
- 4.2.1 Materials and components;
- 4.2.2 Industrial and commercial practice.

THIS COMPONENT IS EXTERNALLY ASSESSED BY THE WJEC.

DT2: 30% (approximately 60 hours)
Design and Make Task

Candidates will submit one design and make task which is internally assessed and externally moderated.

Career Opportunities And Progression

The AS Level course provides a suitable foundation for the study of Design and Technology or a related area through a range of higher education courses or direct entry into employment. It can effectively be combined with a range of A Level courses including Mathematics, Physics, ICT, English and Art. Career opportunities include Architecture, Engineering, Manufacturing, Sales and Management, Education/Teaching, Product Design, Product Management, Design Consultancy, Fashion and Textile Design, Advertising and Display, CAD/CAM.

Head of Department: Mrs S Davies
Teacher: Mrs S Davies, Mr K Chaplin
Examination Board: WJEC



DESIGN & TECHNOLOGY (Product Design) A2 Level

Course Outline

A LEVEL
(THE ABOVE PLUS THE FOLLOWING A2 UNITS)

DT3: 20% 2½ hours
Examination Paper

This paper consists of three sections and will assess candidates' knowledge and understanding drawn from the whole subject content of one focus area listed under:

- 4.1.1 Designing and innovation;
- 4.1.2 Product analysis;
- 4.1.3 Human responsibility;
- 4.1.4 Public interaction;
- 4.2.1 Materials and components; 4.2.2 Industrial and commercial practice.
- 4.2.3 Processes; 4.2.4 Production systems and control

THIS COMPONENT IS EXTERNALLY ASSESSED BY THE WJEC.

DT4: 30% (approximately 60 hours)
Major Project

Candidates will undertake a single substantial project.

This component is marked by the centre and moderated by the WJEC

Entry Requirements

Students should satisfy the school's minimum requirements of a C grade at AS Level and be able to develop their knowledge and understanding of technological processes and creative design.

What Will I Study And How Will I Be Assessed?

DT3 2½ hour exam paper. This paper is a synoptic paper and includes a further 2 modules that focus on processes, production, systems and control, marketing and research.

Career Opportunities And Progression

The AS/A Level course provides a suitable foundation for the study of Design and Technology or a related area through a range of higher education courses or direct entry into employment. It can effectively be combined with a range of A Level courses including Mathematics, Physics, ICT, English and Art. Career opportunities include Architecture, Engineering, Manufacturing, Sales and Management, Education/Teaching, Product Design, Product Management, Design Consultancy, Fashion and Textile Design, Advertising and Display, CAD/CAM.