

# Design Technology

## Examination Board: AQA

### Why study Product Design (3D Design)?

3D design could take you into a number of exciting career paths - Engineering, Architecture, Product or Automotive Design, Graphic Design - all elements utilised by many mainstream manufacturing organisations. But what about computer generated cartoons? Or maybe CAD for industry appeals to you more? The possibilities are limitless...

This course provides you with a real appreciation of design and manufacture. Your A-level studies cover four main topics, and you'll study two of these each year. In 'Materials, components and application' you'll look at materials, production processes and the impact of cost and design. In 'Learning through designing and making' you'll produce a detailed design portfolio, developing your own design with a range of materials and design media. In the second year you'll get to grips with 'Design and manufacture' - helping you to appreciate the relationship between design and technology, manufacturing principles and sustainable design. 'Design and making practice' utilises the individuals skill sets to produce an independent design portfolio, based on a design problem of your choice, designing, developing and manufacturing the solution.

### Entry Requirements

To succeed at A-level or AS level in this subject it is a requirement for students to have followed the higher tier course in a Design Technology subject at GCSE.

### Subject Specification

AS level

Unit 1: PROD1 Materials, Components and Application

50% of AS, 25% of A-level, 2 hr. written paper, based primarily on Materials and Components and consisting of three sections; Section 1 contains compulsory limited response questions; Section 2 offers a choice of one question from two; Section 3 contains one compulsory question.

Unit 2: PROD2 Learning Through Designing and Making

50% of AS, 25% of A-level, coursework – approx. 50 hrs. Written (or electronic) design portfolio; manufactured outcome(s); Coursework may take a number of forms: a simple design-and-make project, two smaller projects or a portfolio of work.

A2 level

Unit 3: PROD3 Design and Manufacture

25% of A-level, 2 hr. written paper. Based primarily on Design and Manufacture and consisting of two sections. Candidates answer three questions: one question from three in each section, plus a final question from either section; includes synoptic assessment.

Unit 4: PROD4 Design and Making Practice

25% of A-level, Coursework – approx. 60 hrs. Written (or electronic) design folder; manufactured outcome. Candidates submit evidence of a simple, substantial designing and making activity.

### Further Information

Students or parents requiring any further details are most welcome to contact Mr N Pottinger, Head of Art and Technology Faculty ([nwp@oswestryschool.org.uk](mailto:nwp@oswestryschool.org.uk)).

