

# Guilsborough Academy Sixth Form

## KS5 CURRICULUM

**Course Title:** Product Design (3D Design)

**Examination Board:** AQA



**Entry Requirements:** Grade B at GCSE in any Design Technology subject. Most suitable for those who have studied Electronics, Resistant Materials or Product Design.

- Assessment:**
- The course assessment is 50 per cent coursework in order To recognise the importance of practical work within this subject.
  - The remaining 50% comprises of 2 two hour exams, one in Year 12 and one in Y13.

### Is This Course Right For Me?

If you are interested in Design, enjoy problem solving and testing out solutions this is the course for you.

A-level Product Design (3-D Design) helps students take a broad view of design and technology, develop their capacity to design and make products and appreciate the complex relations between design, materials, manufacture and marketing.

In Year 12 students work on a portfolio based on two design briefs – the objective is to develop their creativity, design and making skills through exposing them to a wide range of materials and techniques.

In Year 13 students work towards one design brief, developing a product to meet a user's needs.

### Unit Contents:

#### **PROD 1 Materials, Components and Application**

50% of AS, 25% of A Level

2 hour written paper 80 marks

Based primarily on Materials and Components and consisting of three sections

#### **PROD 2 Learning through Design and Making**

50% of AS, 25% of A Level

Coursework - approx. 50 hours 80 marks

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**

#### **PROD 3 Design and Manufacture**

25% of A Level

2 hour written paper 84 marks

Based primarily on Design and Manufacture

#### **PROD 4 Design and Making Practice**

25% of A Level

Coursework – approx. 60 hours 85 marks

Written (or electronic) design folder. Manufactured outcome.

Candidates submit evidence of a substantial designing and making activity

### Progression:

Product Design incorporates many skills and areas of knowledge that can be used in conjunction with other subjects. This subject can therefore lead to many varied careers including; Automotive Design, Sports Innovation, Architecture, Human factors design, Product manufacture, Graphic Design Engineering, Furniture design, & Set design for TV (inc computer based)

### Example of university courses and grades required

- **Loughborough University BSc(Hons) Product Design and Technology** (ABB from 3 A-Levels including A-Level Physics or Maths, plus grade B in A-Level Design and Technology or Art and Design)
- **Brunel University London BSc Product Design** (GCE A-level ABB, including at least Grade B in Design and Technology, Product Design, Art or Art and Design and at least Grade B Maths or Physics (General Studies not accepted).
- **Birmingham City University BSc Product Design** (BBC at A-Level or 280 UCAS tariff points from A/AS Level with a minimum of 2 A-Levels)
- **Sheffield Hallam University BEng (Honours) Materials Engineering** (280 points from GCE/VCE A levels)

### Further Information Contact:

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