

## GCSE

## Product Design

### The Brunts Academy

#### What is Product Design?

Design and Technology encourages students to design and make products with creativity and originality in response to a given design problem. The course offers a variety of practical activities, using a range of materials and manufacturing processes. Graphical design skills are developed through technical drawings, the use of 2D and 3D, CAD and Photoshop, to develop branding and advertising for the products they create. The use of new materials and technologies are encouraged as part of the complete design proposal, to prepare them for the realistic world of work. The students will experience the process of creating products from scratch, which will be evaluated for their commercial viability. Students will be enthused and challenged by the range of practical activities possible as the specification seeks to build upon the multimedia approach of the previous Design and Technology specification.

#### Unit 1 Exam

Paper 1: Written Paper 50% of total marks 2 hours 100 marks the paper will cover ALL design technology material areas (paper/card, woods/metals/plastics and textiles). Section A - Core technical principles (20 marks) Section B - Specialist technical principles (30 marks) Section C - Designing and making principles (50 marks)  
50% of GCSE Externally marked. Externally moderated.

#### Unit 2 NEA Coursework

Non-Exam Assessment 30-35 hours approx. 100 marks 50% of GCSE Consists of a substantial design and make task selected from a range of exam board set tasks and focussing on the Product Design material area.  
Assessment: 50% of GCSE Internally marked. Externally moderated.

#### Key Features of the Course:

- Real world Problem solving
- Product development
- Briefs and specifications
- Technical drawing
- Creating design ideas
- Design development
- Modelling/ prototype development
- Computer Aided Design (CAD)
- Computer Aided Manufacturing (CAM)
- Manufacturing
- Practical making skills
- Product sustainability
- Material properties.
- Finishes
- 50% Course work 50% Exam

#### What type of student is this suitable for?

Design Technology is suitable for any students who are interest in any aspect of Design, resistant materials, manufacturing and engineering. This course will focus on combining graphic design and resistant materials, and students will design and make commercially viable products to solve real world problems.

#### What could this course lead on to?

A creative course would lead onto any career or further education where creativity is a requirement. A-Level or BTEC college courses in; Architecture, Interior Design, Product Design, Engineering, Advertising, Media, Graphic Design, Three-Dimensional CAD work, Ceramics, Fashion, Textiles, Landscape Gardening, Illustration, & Teaching.

#### Course Details: AQA

Website: [www.aqa.org.uk](http://www.aqa.org.uk)

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