

# Design & Technology

## GCSE Resistant Materials Technology

**Team Leader** Miss J Shrapnell

### Aims

The specification aims to prepare candidates to participate in tomorrow's rapidly changing technologies. It calls for candidates to become autonomous and creative problem solvers, as individuals and members of a team. They must look for needs, wants and opportunities and respond to them by developing a range of ideas and making products and systems. This specification combines practical skills with an understanding of aesthetics, social and environmental issues, function and industrial practices. Candidates reflect on and evaluate relevant present and past design and technology, its uses and effects. The specification also seeks to help candidates to become discriminating and informed users and innovators of products. It encourages candidates to think and intervene creatively to improve the quality of life for society.

### Course Description

Pupils are given the opportunity to work with a range of resources in order to gain knowledge and understanding of the working characteristics and processing techniques used when designing and making graphic products. This is achieved through:-

- developing, planning and communicate ideas;
- working with tools, equipment, materials and components to produce quality products;
- evaluating processes and products;
- understanding materials and components;
- understanding systems and control.

Topics covered in Year 10 can include:-

- Metal candle holder
- Pewter casting making jewellery
- Wooden bookends
- Brazing project

### Exam Board OCR GCSE 1956

Pupils are entered for either the Higher Paper (A\* - D grades) or the Foundation Paper (C – G grades) depending on their achievement in class work, homework, coursework, Year 10 and mock examinations.

### Homework

#### Year 10

**Terms 1 to 4** - Homework is set either on a weekly basis or over a longer period of time depending on the individual task set. The homework will either be research based or extend and support the reinforcement of a topic being studied.

**Term 5** - Homework is linked to both revision and revision techniques before the Year 10 exams, and Coursework based activities

**Term 6** - Homework tasks are set linked to pupil's Coursework

#### Year 11

**Term 1** – Homework is linked to both revision and revision techniques before the Year 11 mock exams, and Coursework based activities.

**Terms 2 to 3** – Homework tasks are set linked to pupil's Coursework.

**Terms 4 to 5** – Homework is linked to revision and revision techniques before the final Year 11 exams

### Assessment

Each piece of work will be given a comment, and key pieces of work will be fully assessed and graded to ensure that pupil progress is regularly monitored and agreed targets are set for progression.

Pupils will be encouraged to develop self-assessment and peer-assessment skills through regularly evaluating their own and others work against given criteria.

The final GCSE grade is achieved through 60% Coursework and 40% final examination.