

# DESIGN & TECHNOLOGY:

## *Resistant Materials*



### Pathway: A

### Qualification: GCSE Resistant Materials

#### Course outline:

A GCSE course in Design and Technology offers an opportunity for candidates to identify and solve real problems by designing and making products or systems in a wide range of contexts relating to their personal interests.

As a fundamental part of their course, candidates should design and make products.

Design and Technology develops pupils' interdisciplinary skills, all six of the key skills, and their capacity for imaginative, innovative thinking, creativity and independence.

Resistant Materials develops their capacity for imaginative, innovative thinking, creativity and independence. It is based upon the view that Design and Technology is essentially a practical activity involving the combination of skills with knowledge and understanding in order to design and make quality products.

#### Assessment:

The course culminates with a **2hr exam** which is worth **50%** of their overall GCSE grade.

Pupils will also complete a **30hr Controlled Assessment Task** NEA in which they will design, make and evaluate their own product.

This is worth **50%** of their overall GCSE grade.

The GCSE is administered by the Edexcel Exam Board.



# DESIGN & TECHNOLOGY:



## *Creative Studies*

### Pathway: B



### Qualification: NCFE Level 1 Certificate in Creative Studies: Craft

#### Course outline:

The NCFE Level 1 Certificate is a complementary Technical Award and the vocational equivalent of a GCSE (D-G) qualification.

#### Unit 01 Explore craft skills

Learners will develop basic craft skills and knowledge of materials and techniques. They will select appropriate tools, equipment and materials whilst maintaining a safe working environment.

#### Unit 02 Develop design ideas for craft

Learners will identify a range of sources to inspire their work. They will develop their ideas, responding to feedback from others. They will use tools, materials and techniques to develop craft ideas in 2D and 3D, observing safe working practices.

#### Unit 03 Create ideas in response to a brief

Learners will use the information they have gathered to inform their ideas to respond to a craft brief. Learners will share their ideas and respond to feedback from others.

#### Unit 04 Produce and review final craft work

In this unit learners will produce final craft items following health and safety procedures. Learners will demonstrate a level of skill when using materials and techniques and will create a production plan. Learners will review the final craft items and how they match their original ideas. Learners will reflect on their own craft-making skills identifying actions for further development.

#### Assessment:

This qualification is an internally assessed portfolio of evidence.

This will be internally assessment and externally moderated by NCFE.





# DESIGN & TECHNOLOGY:

## *Product Design*



**Pathway: C**

**Qualification: WJEC Pathways (Entry Level)**

### **Course outline:**

This accreditation has been designed to provide an appropriate qualification for pupils with special educational needs which allows them to develop their design and making skills.

This is a two year course in which pupils complete four units:

◆ **Unit 1: Designing and Modelling**

*Pupils will learn how to research features of a product suitable for design work. We will develop design briefs and specifications before presenting our own design ideas using a range of techniques.*

◆ **Unit 2: Making a product**

*Pupils will learn to select appropriate materials to develop their ideas further before making full use of the school's tools and equipment to manufacture their chosen design. Pupils will review their practical work and identify strengths and weaknesses of their product.*

● **Unit 3: Planning the manufacture**

*Through practical based projects, pupils will learn to identify the importance of planning when making a product.*

◆ **Unit 4: Health & Safety**

*Pupils will learn about workshop Health and Safety requirements. We will explore risks, hazards and learn how we can protect ourselves and others. Pupils will learn how to apply health and safety practices in their work.*

### **Assessment:**

Pupils will achieve either an Entry 2 or Entry 3 Award, Certificate or Diploma, depending on the number of credits submitted.

**There is no exam for this course. It is entirely course work based.**

