

# Option Course: GCSE D&T

## Resistant Materials

### **Year 10 Course content:**

Students carry out a series of set projects involving research, design, model making and making of products using wood, plastic and metals.

### **Year 11 Course content:**

Controlled Assessment - Students produce a comprehensive folder showing how they have researched, designed, developed, made and evaluated their product. Their final major practical 3D product accounts for most of their coursework grade.

Their work should also show an understanding of how 'real world' industrial technologies and processes influence how things are manufactured.

### **Assessment of the course:**

#### **External...**

One 2 hour exam containing Design and Theory questions.  
It constitutes 40% of the student's final grade.

#### **Internal...**

Controlled Assessment project which constitutes 60% of the student's final grade.

### **How is the course taught?**

The course is broken down into small manageable tasks, giving students the necessary confidence to learn and apply the subject's knowledge base to their design and making skills.

### **What skills are needed for the course?**

Creative problem solving.  
Confidence to use ICT programmes, hand tools and machinery.  
Research, analysis, planning, communication and evaluation.  
Measuring and making skills using wood, metal and plastic.

### **What can I do with this subject?**

Go into further training for: Product designer, production engineering, chemical engineering, mechanical engineering, installation engineer, industrial management, architect, shop fitter, carpenter, builder, plumber, teaching/instructor and DIY home projects.