

**Curricular Area:** Design      **Course Title:** Design and Manufacture Nat 4/5

### **Course Aims**

This course will help develop you into a creative, flexible learner, and build up an ability to apply skills and knowledge in a variety of real life situations. It aims to help students produce effective solutions for a variety of design tasks. They will learn how to convey their ideas through design folios and through the construction of prototype models in a variety of materials (metals, woods and plastics).

### **Course Description**

If you enjoy sketching, are imaginative, have an interest in design and like practical workshop activities then this is the course for you. Students will have the opportunity to explore the impact of design and technology in everyday life. They will consider the complete life of a product from its initial conception, through design development, the materials and methods of manufacture, the marketing, to its impact on society. Folio work will develop research, drawing, sketching and rendering skills. Pupils will be involved in the manufacture of products using a practical craft/machine skills.

This course comprises 2 mandatory units

- Design and Manufacture: Design
- Design and Manufacture: Materials and manufacture

### **Assessment**

- *Internal assessments:-* An assignment set by the SQA and worth 90 marks will be undertaken during the course.
- *External assessments:-* This will consist of a single final examination worth 60 marks covering design, tools and processes.

**Please note: Only 30% of this course is based in the workshop.**

### **Home Study Expectations**

Home study may be issued weekly or fortnightly depending on the demands of the task.

### **Possible next level of study**

Higher Design and Manufacture

### **Wider Achievement Opportunities**

Students will have the opportunity to take part in a visit to a local university to look at modern manufacturing techniques and modelling processes using CAD/CAM.

**Possible career paths** - Graphic Design, Architecture, Product Design, and Engineering.