

## THE PROGRAMME

This exciting course looks at how everyday products have been designed and made. You will use a wide variety of tools and equipment which may include work in CAD/CAM, graphics, resistant materials or electronics. It gives you the opportunity to develop skills in designing and making products of high quality. The course comprises 50% coursework and a 50% examination element. The styles of teaching include practical activities, creative design work, modelling, demonstration and practice exam questions.

### The units studied at AS are:

*Unit 1 – PROD1 Materials, Components and Application (two hour written paper):* You will develop an understanding of the physical and mechanical properties of a broad range of materials and components. You will learn why these are used in specific applications, with particular emphasis on the life-cycle of products, manufacture, use and disposal.

*Unit 2 – PROD2 Learning through Designing and Making:* You will design and make a range of high quality products. This may take a number of forms: a simple design-and-make project or two smaller projects.

### The units studied at A2 are:

*Unit 3 – PROD3 Design and Manufacture (two hour written paper):* The content has been divided into three sections: Section A: Materials and Components, Section B: Design and Market Influences, Section C: Processes and Manufacture

*Unit 4 – PROD4 Design and Making Practice:* Students are encouraged to select a problem to solve in which they are interested and which is considered achievable by their teacher. This will include a written design folder and a manufactured outcome of a high quality product.

## WHY STUDY THIS SUBJECT?

This engaging course is based on the design and manufacture of products for everyday use. You must have a real interest in how the things around us work, as well as how and what they are made from. Product Design requires both dedication and hard work to achieve success. As the name suggests, the main focus is on the design of a variety of products. You will have the opportunity to work with a large range of materials and processes in order to produce your manufactured artefacts.

You will have the opportunity to work with a large range of materials and in the first year you will produce a number of scale models and working prototypes. In the second year you will produce one major project with a full sized, working product as the outcome. Product Design is equally rewarding and challenging. It is intended to follow on from Design Technology GCSE courses such as Product Design, Resistant Materials and Graphic Products and aims to teach the design process. You will have the opportunity to tailor the course around your other interests and needs.

## CAREER POSSIBILITIES

The course is particularly useful to those wishing to go on to careers such as product design, architecture, automotive design, jewellery design, packaging design and some engineering courses, as it combines creativity with a high level of technical understanding.

