

GCSE : Product Design

Course Description

This course provides students with the skills and expertise required to design and make real life working prototypes for commercial situations. It focuses upon the design and manufacture of fully functional final models. All students develop a range of manufacturing skills in the areas of wood, metal and plastics. There is a strong focus upon the use of computers to design, develop and manufacture 3D proposals using Computer Aided Design (CAD) and Computer Aided Manufacture (CAM). The course uses the latest software to produce virtual models, allowing them to be analysed and developed on screen prior to manufacture. Throughout the course students develop a range of designing skills, both hand and ICT based in addition to workshop and CAD/CAM manufacturing techniques.

Examination Information

Coursework portfolio from
April 2014 – March 2015

Exam: 40% / Portfolio of work: 60%

This course leads to an
**AQA : GCSE Level 2 in
'Design & Technology: Product Design'**



Skills

Develops designing and manufacturing skills including the use of CAD/CAM.

Research and evaluative skills are developed throughout the production of the design portfolio.

High level Thinking and Listening skills will be developed throughout the course.

Teaching & Learning

The curriculum is delivered in a combination of workshop and class-room environments. Lessons are varied with a mix of practical tasks, design tasks and written work. A variety of different styles of learning are utilised to suit a range of different learners. Students can choose to work with computers or design by hand depending on their preferred design style. Throughout the course students are encouraged to work collaboratively to discuss and develop their own individual design and problem solving skills.

Assessment Methods: Throughout Year 10 students are assessed on individual projects set to develop and practice design skills, practical workshop skills and CAD/CAM knowledge. The final GCSE is awarded for completing an internally assessed design and make assignment in addition to a final externally assessed examination.

Progression to Further Education

Students who obtain an 'A* to B' grade would be suitable candidates to study Product Design in the Sixth Form.

Students who wish to follow a career in the areas of Interior, Product, Digital Design/Multimedia or Architecture would be suitable candidates for this course.



For further information please see

Mr Graham
(Head of Design Technology)

Careers

Graphic Design
Industrial Design
Architecture
Theatre Design
Furniture Design
Jewellery Design
Fashion Design
Multi-media Design