

GCSE : Electronic Products

Course Description

This course provides students with the skills and expertise required to design and make real life working prototypes for the electronics industry. The focus of the course is to provide a practical approach that allows students to design and make quality electronic products with creativity, originality and flair using a wide range of electronic components, new technologies and modern electronic devices. There is a strong focus upon the use of computers to simulate the design and operation of digital and analogue circuitry. The course uses the latest hardware and software to produce fully functional working models, allowing them to be analysed and developed 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
May 2014 – March 2015

Exam: 40% / Portfolio of work: 60%

This course leads to an
AQA : GCSE in Design & Technology
‘Electronic Products’



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 classroom 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, prototyping as well as 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 a grade 'C' or above would be suitable candidates to study A-level 'Product Design' or BTEC Level 3 'Engineering' in the Sixth Form.



For further information please see

Mr Graham

(Head of Design Technology)

Careers

Electronics
Product Design
Industrial Design
Electrician
Construction
Electrical Engineering