

# GCSE : Resistant Materials

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## Course Description

This course provides students with the skills and expertise required to design and make everyday objects using resistant materials such as wood, plastic and metal. It focuses upon the design and manufacture of fully functional models. There is a strong focus on the development of practical skills using wood as an initial focus. The course uses computers to enhance the quality of design work and makes use of CNC machinery to produce high quality prototypes.

Students are expected to become more independent as the course progresses. They will have the opportunity to complete an externally set design and make activity in year 11, assessing their ability to work alone on a real life project.

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## Examination Information

Coursework portfolio from  
May 2014 – March 2015

**Exam: 40% / Portfolio of work: 60%**

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



### 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.

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## 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.

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## Progression to Further Education

Students who obtain an 'A to C' 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

Engineering  
Construction  
Joinery  
Design Industries