

Design Technology Resistant Materials

Course Title: Resistant Materials

Exam Board: OCR

Syllabus: J306

What will I learn?

During this course you will develop your creativity and increase your ability to benefit from collaborative input to improve design solutions. You will dramatically increase the breadth and depth of your practical expertise. Your appreciation of the role of design in society and the influence that it has had in changing the world in which we now live will grow. The importance of sustainability as a key facet of design will influence all your thinking.

Aims:

Develop practical capability in a wide range of resistant materials.

Be able to design and manufacture using CAD/CAM.

Understand the responsibility that designers have in society and to the environment.

Design and make various artefacts in order to develop expertise in the use of metal.

Make items from plastics and wood so that skill levels can be enhanced and a greater appreciation of these materials can be achieved.

Learn all the various technical aspects of the subject so that you can converse at an appropriate level with other experts in this field.

Undertake two units of work that are 'Controlled Assessments'

How will I be assessed?

Two units of work that are 'Controlled Assessments' and one exam which is 1.5hrs in length.

Unit A561 Introduction to Design and making. A 20 hour 'Controlled Assessment' that constitutes 30% of GCSE marks.

Unit A563 Making Quality Products. A 20 hour Controlled Assessment that constitutes 30% of the GCSE marks.

Unit A565 Sustainability and technical aspects of designing and making. A 1.5 hour Examination which is 40% of the GCSE marks.

Style of Teaching and Learning

A very kinaesthetic approach to learning which includes many collaborative exercises as well as formal teaching of the technical aspects of the subject.

Link to exam Board

<http://www.ocr.org.uk/qualifications/gcse-design-and-technology-resistant-materials-j306-j046-from-2012/>