

GCSE Technology - Resistant Materials

Manufacture in Resistant Materials Outline of the course

- From the; International Space Station, Contemporary Fashion Design, to the 2016 Olympic Stadium, how do we use materials technology in the design and construction of modern products?
- How do designers incorporate both smart and modern materials into brand new products?
- How do designers and materials specialists use ICT to manufacture a new product?
- Can I use a range of modern tools and equipment that will give me the skills to progress **beyond GCSE?**

These and other questions will be answered in this brand new and fantastic vocationally based GCSE Design and Technology course, which aims to promote the selective and thoughtful use of contemporary design and manufacture to produce modern products. This course provides a ground-breaking and innovative qualification rewarding talent, flair and imagination and reflects both the contemporary use of materials and how industry uses the innovative and creative use of both resistant and compliant materials to make products. Modern-day use of Information and Communication Technologies to aid research and design is an integral part of the course, as well as computer-aided-design and manufacture. **Work - Related Learning using; CAD - CAM, Design, Laser Cutting, 3D Printing, Dye Sublimation, as well as experiencing a range of related materials is a primary element of the course.**



Assessment:

The qualification is worth a full GCSE ranging from 9 to 1 and is divided into:

Unit 1 - Written Paper - "The theory stuff" (50%) and

Unit 2 - Designing and Making in Resistant Materials (50%)

Why study GCSE Design and Technology?

This very exciting GCSE specification in design and technology, with an emphasis on Materials Technology and Technical Manufacturing Principles will encourage all candidates to be stimulated encouraged and challenged by following a modern, broad, logical, satisfying and worthwhile course of study, and to gain an insight into related post GCSE sectors, such as design, manufacturing, technology and engineering. It will prepare candidates to make informed decisions about further learning opportunities and career choices. **For example, careers in Civil Engineering, Mechanical Engineering, Product Design, Design Engineering, Construction and Design Technologies, Materials Engineering, Graphic Design, Product Design, Industrial Design and Technology and Computer Aided Design, Creative and Media careers.**



For more information about this subject and the course, please contact:
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