Product Design (Resistant Materials)

Teacher in charge of subject	**Mr Evans**
Type of qualification	**A level**
Exam board and subject code	**Edexcel 9DT0**

Entry requirements

Specific subject requirement	**Grade 4 in GCSE Resistant Materials or Graphic Products or Level 2 Pass in Engineering**

Course details

The two year course is made up of four units, two units internally set and internally assessed during year 12 year will focus on Lighting and industrial design, and a further two units set at A2. The two units set in year 13 combine to make the full A level. During both years there are challenging design and make activities which will give you the opportunity to develop your drawing and making skills. In addition to the practical coursework Principles of Design and Technology will be covered these principles are covered in the following topics

Topic 1: Materials
Topic 2: Performance characteristics of materials
Topic 3: Processes and techniques
Topic 4: Digital technologies
Topic 5: Factors influencing the development of products
Topic 6: Effects of technological developments
Topic 7: Potential hazards and risk assessment
Topic 8: Features of manufacturing industries
Topic 9: Designing for maintenance and the cleaner environment
Topic 10: Current legislation
Topic 11: Information handling, Modelling and forward planning
Topic 12: Further processes and techniques.

Note : You can either study either Graphics or Resistant Materials not both.

Assessment

Written Exam 50% of the qualification
Taken in Year 13
Principles of Design and Technology

Course work 50% of the qualification
Completed in Year 13
Independent Design and Make project
This project is instigated by a client, negotiated with the student leading to a working prototype.

Career options

Students have gone on to study degrees in Civil Engineering, Mechanical Engineering, Motor Vehicle Design, Product Design, CAD designer, Architecture. Over the years some students have chosen to follow industry sponsored degree courses or high level apprenticeships whilst in employment e.g. Bentley (Crewe) and BAE systems.