**AQA GCSE Design and Technology**

**What qualification does this course lead to?**

You will be awarded one of the following grades: 9-1

**What topics will I study?**

You will study a wide variety of ***core technical principles*** covering all materials areas including: papers and boards, textiles, metals, polymers, new materials, systems, mechanical systems, environmental, sustainability, industrial practices, enterprise, social/moral and cultural issues, energy generation and storage.

You will then ***specialise*** in to your chosen specific material. You can choose to specialise in:

* Textiles
* Paper and boards (Graphics)
* Timbers and Polymers (Resistant materials)

Within your chosen specialism you will cover all aspects of the iterative design process and appropriate manufacturing skills. E.g. The work of others (designers), design strategies, sketching, orthographic drawing, 3D modelling, prototyping, CAD, tolerances, quality control, tools/equipment and processes, scales of production.

**What understanding and skills will I develop?**

* The iterative design cycle
* Design specifications and the development of new products
* Wider influences of developing new products e.g. environmental, social/moral/cultural, design constraints
* Communicating design ideas
* Prototyping and manufacturing

**How will I learn/ how will I be taught?**

There are a variety of teaching and learning styles used. These include research, where the pupils find out information for themselves; both theory and practical based activities including activities such as drawing and making a prototype from craft material.

**How will I be assessed?**

**External Examination 100 marks – 50% of final mark** – this will include examination of the core technical knowledge (all material areas) as well as the specialist technical knowledge.

**Non Examined Element (NEA): Centre assessed task 100 marks - 50% of final mark**

NEA tasks will be released at the end of year 10 by the exam board, these design contexts will change each year. You will need to generate evidence in a portfolio to show how you have solved the client brief.

**What can this course lead on to?**

P16 courses in Product Design, Engineering Design, Fashion and Textiles, apprenticeships and a wide variety of technology careers.

**Who do I need to contact for more information?**

Mrs E. Dandy

**Students will need to be photographed as evidence of work undertaken**

**Maximum class sizes: 15**

**Maximum number of classes: 3**