GCSE Design Technology – Materials

What Will You Do?

Core technical principles
Taught through a variety of materials eg Graphics, Materials, Electronics and Textiles. Knowledge covered through theory and practical work to include;
• New and emerging technologies
• How energy is generated and stored
• Modern and smart materials
• Understanding a systems approach when designing
• Mechanical devices
• Materials and their properties

Specialist Technical Principles
Taught through TIMBERS

Designing and making principles
This will focus on hard materials eg wood but can combine different materials within your designing and making.

Assessment Details

You will undertake a project based on a contextual challenge released by the exam board. The project will test you skills in investigating, designing, making and evaluating a prototype of a product.

NEA Coursework – 50% of marks

Written exam 1 hr 45 mins – 50% of marks

Is Design Technology for you?

Would you like to study a broad range of materials in a practical way?
• There is a greater emphasis on design
• The use of mathematical skills is a key requirement, and is tested in the examination.
• An understanding of underlying scientific principles is expected

Possible Career Options

Product Design
Construction
Manufacturing

Architecture
Architectural Technician
Interior Designer
Engineering

Further Education

Manufacturing and Production
A-level Design and Technology: Product Design
L3 vocational qualifications
Apprenticeships

DT - Materials