

Summer Term

SUBJECT: DT

Year: 10

Topic(s) to be covered:

Core Theory – Students will explore a range of materials including papers, boards, textiles, polymers and metals. This will include their origin and processing alongside properties and performance features enabling them to make informed choices for a product specification.

Practical skills development – Students will evaluate production techniques with a variety of materials, they will test traditional materials against composites and further develop hand skills with tools and workshop equipment to produce a prototype and test finishes.

Math's for design technology - An essential part of the course, math's skills will be developed which will allow for production planning, material use, marking out materials and problem solving.

Coursework (NEA)– Students will explore the design challenges from the examination board and begin researching potential opportunities and clients.

Assessment Procedures:

Students will be assessed following the GCSE criteria Research, Design, Make, Evaluate. They will complete a mini project/unit each half term to develop practical and theoretical understanding. They will have will have regular mini tests to check understanding of the core knowledge.

Homework guidance:

Homework will be set on a weekly basis, allowing students to develop their theoretical knowledge to support the exam element of their GCSE.

Enrichment opportunities:

Students do have the option to attend catch up sessions if needed during lunchtimes or after school if they feel they need more time and support on their practical product.

How can you help?

Parents can support their child in DT by talking to them about the project they are undergoing and encourage them to do their best. If parents take an interest in their practical project work this helps to inspire and motivate students to excel in the subject. It is also helpful if students are provided with a quiet place to do their homework tasks. A home computer is also an essential requirement to enable students to access the school gateway to access CAD software for homework tasks and to enable them to research homework tasks. Many homework tasks can be researched by using google but there are some good sites which are free to access such as: 'Technology student.com' and 'Mr D & T'.