SPRING/SUMMER 2022

SUBJECT: D&T

Year: 9

Topic(s) to be covered

In Year 9 DT students learn a range of topics which link to the project. They will experience what GCSE Design and technology is like through a mini-NEA. They will cover the following topics in theory lessons:

(1) Specification & Investigation (2) Technical drawing & Rendering skills (3) Plastics, metals, wood and the environment (4) Health & Safety (5) Ergonomics and Anthropometrics.

Practical: Students will create a product of their choosing from a variety of recycled materials. The project will enable pupils to understand the materials around them and the importance of sustainability. They will learn how to mark, cut out and join materials using tools and machinery safely and accurately. They will develop hand tool skills with the ability to continuously test their accuracy through quality control checks. This project will allow students to create a bespoke project, developing problem solving skills when assembling and testing the product.

Assessment Procedures

Students are assessed in their work booklets through teacher, self and peer assessment. They have clear guidance on standards of work and descriptors for each grade. There is an expectation on students to develop independent skills and be able to consider their current ability and how to progress to the next grades. Students are graded on their "investigate, design, make and evaluate" sections of their work. Progress is measured against their starting point each term. Assessment is based on technology skills: subject theory, design ability and practical outcome.

Homework guidance

Students are given homework at regular intervals at least every two weeks throughout the project. The homework tasks are shared on Insight for both parents and students to access.

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.

Afterschool STEM club for KS3.

How can you help?

Parents can support their child in DT by talking to them about the project they are undergoing and encouraging 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'.