Learning Over the Year -

Outline:
This new GCSE Design and Technology will prepare students to participate confidently and successfully in an increasingly technological world. Students will gain awareness and learn from wider influences on Design and Technology including historical, social, cultural, environmental and economic factors. Students will get the opportunity to work creatively when ‘designing and making’ and apply ‘technical and practical’ expertise.

The GCSE allows students to study core technical and designing and making principles, including a broad range of design processes, materials techniques and equipment. They will then study specialist technical principles or 2 in greater depth.
• Selection of materials and components
• Forces and stresses
• Ecological and social footprint
• Scales of production
• Sources and origins
• using and working with materials
• Stock forms, types and sizes
• Specialist techniques
• Surface treatments and finishes

During Year 9 & 10:
Students will complete units on:
New technologies and environmental impacts
Polymers & Systems and Electronics
Materials properties and Casting
Working with woods and its properties
Working with textiles and their properties

Year 11:
Is predominantly coursework based with a focus given to the student by the exam board. This involves greater emphasis on understanding and applying iterative design processes. Students will use their creativity and imagination to design and make prototypes that solve real and relevant problems, considering their own and others’ needs, wants and values.

Homework & Assessment -
Homework will be set in accordance with school policies on a lesson basis. Further to homework will also be set at times via our online software: Dynamic Learning which each student has their own a log in for. During Year 11 students are expected to be working regularly on their NEA (coursework) as well.

What’s assessed:
Core technical principles
Design & Technology 2018-19 | GCSE

Specialist technical principles
Designing and making principles

How it's assessed:
Written exam: 2 hours
100 marks
50% of GCSE
Non-exam assessment (NEA) – (Coursework): 30–35 hours approx
100 marks
50% of GCSE

Coursework information: Substantial design and make task
Assessment criteria: Identifying and investigating design possibilities
Producing a design brief and specification
Generating design ideas
Developing design ideas
Realising design ideas
Analysing & evaluating

In the spirit of the iterative design process, the above should be awarded holistically where they take place and not in a linear manner. Contextual challenges to be released annually by AQA on 1 June in the year prior to the submission of the NEA. Students will produce a prototype and a portfolio of evidence. Work will be marked by teachers and moderated by AQA

Exam Board Information -

Subject Contact Information -

Mr Ellis: Head of Design & Technology and STEM
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Links:
https://www.aqa.org.uk/
http://www.technologystudent.com/