

## SUBJECT: Design Technology

YEAR GROUP:11



### Overview:

The new GCSE places 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.

They will be tasked to create a 20 to 25-page portfolio of work applying iterative design principles throughout the project to a design problem given by AQA exam board.

In the last six months of the year, pupils will then receive a recap on the theoretical knowledge that they learnt in year 10 and a range of mini exam mock tests.

### PROGRAMME OF STUDY

#### During this year Design Technology students will:

- demonstrate their understanding that all design and technological activity takes place within contexts that influence the outcomes of design practice
- develop realistic design proposals as a result of the exploration of design opportunities and users' needs, wants and values
- use imagination, experimentation and combine ideas when designing
- develop the skills to critique and refine their own ideas whilst designing and making
- communicate their design ideas and decisions using different media and techniques, as appropriate for different audiences at key points in their designing
- develop decision making skills, including the planning and organisation of time and resources when managing their own project work
- develop a broad knowledge of materials, components and technologies and practical skills to develop high quality, imaginative and functional prototypes
- be ambitious and open to explore and take design risks in order to stretch the development of design proposals, avoiding clichéd or stereotypical responses
- consider the costs, commercial viability and marketing of products
- demonstrate safe working practices in design and technology
- use key design and technology terminology including those related to: designing, innovation and communication; materials and technologies; making, manufacture and production; critiquing, values and ethics

### METHOD OF ASSESSMENT

- Completion of work in individual subject booklet
- Class discussions
- Self and peer marking
- Reviewing knowledge and skills acquired during the term
- Successful outcome of practical work from following step-by-step instructions given by the teacher
- Teacher feedback and self-evaluation of pupils work identifying successes and targets for improvement
- Weekly homework monitoring
- Mid-term and end of term assessments

