

<b>Subject:</b> <b>Design and Technology</b>	<b>Year:</b> <b>11</b>	<b>Developed by:</b> <b>Design and Technology Dept.</b>	<b>Date:</b> <b>September 2021</b>
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### INTENT

The Design and Technology Department offers two different Courses of study during KS4

**AQA: Design and Technology GCSE**

*This year is the SECOND year of GCSE studies. The NEA section of the GCSE is continued and completed and students are prepared for the final exam.*

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.

GCSE D&T allows students to study core technical and designing and making principles, including a broad range of design processes, materials techniques and equipment. They will also have the opportunity to study specialist technical principles in greater depth.

**Edexcel: Construction and the Built Environment BTEC**

*(Construction Technology, Exploring Carpentry and Joinery)*

*This is the continuation and completion the BTEC course, students are able to incorporate the skills and knowledge from KS3 to develop an understanding of the Construction Industry and its contribution to and impact upon the natural environment*

This course allows students to study construction and the built environment, giving them the opportunity to gain a broad knowledge and understanding of the industry. They will develop skills such as interpreting and analysing information, identifying the infrastructure required for safe and efficient work, and understanding how client needs can shape building design.

Students complete the final two compulsory mandatory units, covering the fundamental knowledge, skills and understanding required for construction technology and design: scientific and mathematical application for construction construction and design.

Students will also sit the unit 1 exam (initially in January and if a suitable result is not achieved re-sat in June

This qualification will enable students to develop a theoretical and practical knowledge of the built environment alongside some practical skills. It will also enable them to engage with the mathematical and scientific principles that underpin the construction industry, and to explore the impact of design through research and the application of their own ideas in response to a design brief.

This qualification will allow progress to further vocational study at level 3, such as a BTEC National in Construction and the Built Environment, or Engineering, or academic study such as A levels. The broad content may help successful learners enter a range of apprenticeships, for example in craft trades or built environment design

**GCSE IMPLEMENTATION**

Overview of Year – Topic area and Assessment	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	Completion of Section C.  Section D (Developing Ideas)  Section E (Making)  After School Sessions	Completion of Section E. (After School sessions)  Section F. (Evaluation)  After School Sessions	Completion of Section F. (After School Sessions if possible)  Moderation of Projects. Targeted support (outside of lessons)  Complete all Theory.	Revision  Exam Technique.  Revision  Exam Technique  Target topics flagged up by Mock exams.	Revision  Targeted Topics  Exam Technique  Preparation of revision Materials.	Exam leave  Exam Clinics x 2 (3hrs each)  Revisit Topics  Exam Technique.

**BTEC IMPLEMENTATION**

Overview of Year – Topic area and Assessment	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
	Unit 1: Construction Technology  Mastery of theory introduced in yr 10  Exam preparation including interpretation of questions and exam technique.	Unit 3: Construction and Design  Learning Aim A:  The scale of the Construction Industry.	Unit 3: Construction and Design  Learning Aim B & C:  Designing buildings that meet the needs of the Client.	Unit 2: Scientific and Mathematical Applications for Construction.  Learning Aim: A  Forces and Temperature change, selecting materials that perform best in buildings.	Unit 2: Scientific and Mathematical Applications for Construction.  Learning Aim: B  The use of Mathematics in Construction	Unit 1: Construction Technology  Mastery of theory introduced in yr 10  Exam preparation including interpretation of questions and exam technique.