

Subject: Design and Technology	Year: 11	Developed by: Design and Technology Dept.	Date: September 2022
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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. *(this will be the final delivery of this course, as the exam board has now introduced a new qualification: BTEC Tech Award which year 10 students will begin in September 2022)*

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 have sat the unit 1 exam initially in June of year 10 but if a suitable result was not achieved, they have the opportunity to re-sit in June of year 11

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. (Initial Ideas)	Completion of Section E. (After School sessions)	Completion of Section F. (After School Sessions if possible)	Revision	Revision	Exam leave
	Section D (Developing Ideas)	Section F. (Evaluation)	Moderation of Projects. Targeted support (outside of lessons)	Exam Technique	Exam Technique	Exam Clinics (as possible)
	Section E (Making)	After School Sessions (as possible)	Complete all Theory.	Target topics flagged up by Mock exams.	(Targeted Topics)	Revisit Topics
	After School Sessions (as possible)					Exam Technique.

GCSE IMPACT

Topic, Assessment, Readiness	Topic	Assessment Method	Mark Sch / Grade Boundaries	Knowledge / Skills / Understanding To be shared with students
	THEORY	Combination of exam style questions at end of each topic area and formal mock exams Including FAR marking	9 – 1 (determined by AQA from center assessed marks)	The specific theory topics are delivered in full using a variety of delivery methods including practical tasks to embed knowledge and understanding
	NEA	Students coursework assessed and moderated in accordance with AQA guidelines	Marks awarded according to AQA guidelines Section A : 0 – 10 marks Section B : 0 – 10 marks Section C : 0 – 20 marks Section D : 0 – 20 marks Section E : 0 – 20 marks (Covid : 0 – 10 Marks) Section F : 0 – 20 Marks (Covid : 0 – 15 marks)	students are encouraged to apply their creative and design skills to produce innovative and original coursework pages and design modelling

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 June Exam preparation including interpretation of questions and exam technique.

BTEC IMPACT

Topic, Assessment, Readiness	Topic	Assessment Method	Mark Sch / Grade Boundaries	Knowledge / Skills / Understanding To be shared with students
	Unit 3 LA: A	Coursework assessed and moderated according to Pearson BTEC specification requirements	L1P / L2P/ L2M/ L2D	Knowledge, skills and understanding as detailed in BTEC Specification Delivered as theory and supported personal research
Unit 3 LA : B&C	Coursework assessed and moderated according to Pearson BTEC specification requirements	L1P / L2P/ L2M/ L2D	Knowledge, skills and understanding as detailed in BTEC Specification Delivered as theory and practical application	
Unit2 LA : A	Coursework assessed and moderated according to Pearson BTEC specification requirements	L1P / L2P/ L2M/ L2D	Knowledge, skills and understanding as detailed in BTEC Specification Delivered as theory and supported personal research	
Unit2 LA : B	Coursework assessed and moderated according to Pearson BTEC specification requirements	L1P / L2P/ L2M/ L2D	Knowledge, skills and understanding as detailed in BTEC Specification Delivered as theory and supported personal research	
Unit 1 External Exam	Exam style questions assessed and moderated according to Pearson BTEC exam mark schemes	L1P / L2P/ L2M/ L2D	Knowledge, skills and understanding as detailed in BTEC Specification Delivered as theory and supported personal research	