Key Stage 3 Year 7 – Design Technology 2023-24

MALTBY ACADEMY

Half Term 1: 4h Sept - 20st Oct (7 weeks)									
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7		Week 8	Week 9
Neatest Handwriting, Workshop safety rules Introduction to the projects and expectations	Textiles Bauble – Textiles theory and practical skills development SMSC – Spiritual/Cultural Development			Textiles Bauble – Textiles theory and practical skills development SMSC – Social/Cultural Development			October Half-Term Holiday	REVIEW of Assessment and End of Unit Test	Developing Isometric skills

Half Term 2: 30th Oct - 22nd Dec (8 weeks)						Half Term 3	
Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17
Google Sketch-Up8 Skills		REVIEW and Test Isometric Drawing Rules.	Toy Project launch - Wooden Pull-along Toy Wood theory and practical skills development SMSC – Moral Development		Christmas Holiday	Wooden Pull-along Toy – Wood theory and practical skills development. Cutting, rounding, filing and drilling	

Half Term 3: 8th Jan - 9th Feb (5 weeks)				Half Term 4: 19th Feb - 29th March (6 weeks)					
Week 18	Week 19	Week 20		Week 21	Week 22	Week 23	Week 24	Week 25	Week 26
Wooden Pull-along Toy – Wood theory and practical skills development. Cutting, rounding, filing and drilling SMSC – Moral Development			February Half-Term Holiday	Wheels added, staining, adding eyelets and string – Photograph final product		REVIEW of Assessment and End of Unit Test	Acrylic Clock - Introduction & Polymer Theory. Demonstration of Vacuum Forming and showing plastic products SMSC – Moral Development		

	Half Term 5: 15th April - 24th May (6 weeks)							Half Term 6
	Week 27	Week 28	Week 29	Week 30	Week 31	Week 32		Week 33
Easter Holiday	Acrylic Clock – Initial design drawings and 2D Design work Polymer theory and skills development			Acrylic Clock – Properties and characteristics of materials Google Sketch-Up 8 design work Practical skills development SMSC – Moral Development			Spring Bank Holiday	Google Sketch-Up 8 design work Practical skills development

Half Term 6: 3rd June - 19th July (7 weeks)						
Week 34	Week 35	Week 36	Week 37	Week 38	Week 39	
Google Sketch-Up 8 design work Practical skills development	Acrylic Clock – Practical assembly of the product. Adding the stand and photographing the product			REVIEW of Assessment and End of Unit Test		

Curriculum Intent:

Year 7 prepares students for further study in Design and Technology. A wide range of materials are used to develop practical skills, alongside theory work which develops knowledge and understanding of key D&T topics.

Key Stage 3 Year 8 – Design Technology 2023-24

MALTBY ACADEMY

Half Term 1: 4th Sept - 20st Oct (7 weeks)								
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	October Half-Term Holiday	Half Term 2
								Week 8 / Week 9
Introduction to DT - Health and Safety. Isometric Drawing SMSC – Moral Development		Graphics Project – CAD Mobile Phone		One Point Perspective and Two Point Perspective		REVIEW of Assessment and End of Unit Test		Pewter Keyring Metal Theory/Graphics SMSC – Social/Cultural/Moral Development
Half Term 2: 30th Oct - 22nd Dec (8 weeks)								
Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Christmas Holiday		Half Term 3
								Week 16 / Week 17
Initial Design Ideas CAD Design work		Design Inspiration 2D Practical demonstration of Pewter casting, cutting and polishing			REVIEW of Assessment and End of Unit Test			USB Light Project Launch and Theory SMSC – Social/Cultural/Moral Development
Half Term 3: 8th Jan - 9th Feb (5 weeks)			February Half-Term Holiday	**Half Term 4: 19th Feb - 29th March (6 weeks)**				
Week 18	Week 19	Week 20		Week 21	Week 22	Week 23	Week 24	Week 25 / Week 26
Woods (Properties and Characteristics) Electronics (identifying components) Practical soldering and testing of components SMSC – Social/Cultural/Moral Development				Wood Practical. Correct use of tools and equipment. Health and Safety discussion around tools, equipment and processes Measuring and marking out accurately			Assembly of the box, gluing and using the 'Strip Heater' to shape the acrylic. Testing of USB Light SMSC – Social/Cultural/Moral Development	
Easter Holiday	**Half Term 5: 15th April - 24th May (6 weeks)**						Spring Bank Holiday	Half Term 6
	Week 27	Week 28	Week 29	Week 30	Week 31	Week 32		Week 33
	REVIEW of Assessment End of Unit Test		Chocolate Bar Project Launch Initial design drawings and research SMSC – Social/Cultural/Moral Development			Theory on Polymers/Mood-board		Practical: Making the Mould Practical: Making the NET
Half Term 6: 3rd June - 19th July (7 weeks)								
Week 34	Week 35	Week 36	Week 37	Week 38	Week 39			
Food labelling and making of the chocolate bar SMSC – Social/Cultural/Moral Development			Food labelling and making of the chocolate bar		REVIEW of Assessment and End of Unit Test			

Curriculum Intent:

Year 8 prepares students for further study in Design and Technology. A wide range of materials are used to develop practical skills, alongside theory work which develops knowledge and understanding of key D&T topics.

Key Stage 3 Year 9 – Design Technology 2023-24

MALTBY ACADEMY

Half Term 1: 4th Sept - 20st Oct (7 weeks)									
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	October Half-Term Holiday	Week 8	Week 9
Introduction to DT – Recap Health and Safety of tools, equipment and processes		Graphics skills development- 1 & 2 point perspective		Rendering, isometric and Ideation Drawing Skills		REVIEW of Assessment and End of Unit Test		Wooden Picture Frame - Practical skills development working with woods – Measuring and marking out accurately SMSC – Social/Cultural/Moral Development	

Half Term 2: 30th Oct - 22nd Dec (8 weeks)									
Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Christmas Holiday		Week 16	Week 17
Wooden Picture Frame - Practical skills development working with woods – Halving Joints and sanding		Wooden Picture Frame - Practical skills development working with woods – Mitre Joints and sanding		Applying a finish and CAD Design, upload, print and add to folders SMSC – Moral Development				Wooden Picture Frame - Practical skills development. Completion of manufacturing and making of the Metal section	

Half Term 3: 8th Jan - 9th Feb (5 weeks)				Half Term 4: 19th Feb - 29th March (6 weeks)					
Week 18	Week 19	Week 20	February Half-Term Holiday	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26
Completion of manufacturing and making of the Metal section Practical Vacuum Forming demonstration and assembly		REVIEW of Assessment and End of Unit Test		Coat Hook launch and demonstration of processes SMSC – Social/Cultural/Moral Development		Metals- Practical skills development to produce a metal coat hook.		Theory on metals. Bending and shaping the Hook Section	

Easter Holiday	Half Term 5: 15th April - 24th May (6 weeks)						Spring Bank Holiday	Half Term 6
	Week 27	Week 28	Week 29	Week 30	Week 31	Week 32		Week 33
	1st Angle Orthographic drawing of the Coat Hook		Practical skills development to produce a metal coat hook.		Google Sketch-Up8 work on the metal coat hook. Rendered and printed off			Google Sketch-Up8 work on the metal coat hook. Rendered and printed off

Half Term 6: 3rd June - 19th July (7 weeks)					
Week 34	Week 35	Week 36	Week 37	Week 38	Week 39
Wooden Section of the Coat Hook and assembly of all three parts. Correct use of tools and equipment SMSC – Social/Cultural/Moral Development			REVIEW of Assessment and completion of portfolios. Adding images and Closing The Gaps		End of Unit Test

Curriculum Intent:

Year 9 project work prepares students for further study in Design and Technology. A wider range of materials are used to develop practical skills, alongside theory work which develops knowledge and understanding of key D&T topics. They continue to look at how materials 'fit together' by using a range of joining methods. The introduction of the 'Design Process' in the final project prepares students for the next step into Engineering as a potential option

Key Stage 4 Year 10 – Engineering 2023-24

MALTBY ACADEMY

Half Term 1: 4th Sept - 20st Oct (7 weeks)								
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7		Half Term 2
								Week 8 / Week 9
Content Area 1 - Engineering Disciplines and 'End of Unit Test' Results to be added to the Exam Tracker Homework set via Satchel One SMSC – Social/Cultural/Moral Development			Content Area 2 - Apply Science and Mathematics in Engineering Launch of EGG CRASH TEST – Design Process and PowerPoint Investigation and research into CRASH TESTING Homework set via Satchel One				October Half-Term Holiday	PPE and Manual Handling Model Making and construction of the Crash Test Model Homework set via Satchel One SMSC – Social/Cultural/Moral Development

Half Term 2: 30th Oct - 22nd Dec (8 weeks)							Half Term 3	
Week 10	Week 11	Week 12	Week 13	Week 14	Week 15		Week 16	Week 17
RIDDOR, COSHH and HASAWA Testing the Models, logging results and evaluation. END OF UNIT TEST Homework set via Satchel One		Content Area 3 - Understand how to read engineering drawings First Angle Orthographic Drawing, Oblique and Isometric Homework set via Satchel One SMSC – Social/Cultural/Moral Development			END OF UNIT TEST Hand Drawings with drawing boards and equipment	Christmas Holiday	Launch of the Bridge Project Ideation – Drawing techniques and drawing development. Development of the 'Bridge Design'	

Half Term 3: 8th Jan - 9th Feb (5 weeks)				Half Term 4: 19th Feb - 29th March (6 weeks)					
Week 18	Week 19	Week 20		Week 21	Week 22	Week 23	Week 24	Week 25	Week 26
Content Area 6 - Produce hand-drawn engineering drawings Year 10 – Engineering Mock Exam Homework set via Satchel One			February Half-Term Holiday	Content Area 7 - Produce computer-aided design (CAD) engineering drawings pf the Bridge Design Print off and add to the workbook Tools, equipment and processes Card Modeling of the Bridge Project			Content Area 8 - Understand production planning techniques Content Area 4 - Understand the properties, characteristics and selection of engineering materials Add to the Workbook. Homework set via Satchel One		

	Half Term 5: 15th April - 24th May (6 weeks)							Half Term 6
	Week 27	Week 28	Week 29	Week 30	Week 31	Week 32		Week 33
Easter Holiday	Content Area 5 - Understand engineering tools, equipment and machines Launch - Mobile Phone Holder Project. modelling and manufacture. Homework set via Satchel One			Content Area 5 - Understand engineering tools, equipment and machines Measuring and marking out accurately and shaping and drilling of the Mobile Phone Holder section.			Spring Bank Holiday	END OF UNIT TEST – Tools, equipment and processes

Half Term 6: 3rd June - 19th July (7 weeks)						
Week 34	Week 35	Week 36	Week 37	Week 38	Week 39	
Content Area 9 - Apply processing skills and techniques Measuring and marking out accurately and shaping and drilling of the Mobile Phone Holder section. Homework set via Satchel One			Content Area 4 - Understand the properties, characteristics and selection of engineering materials Completion of the Engineering Workbooks – Closing the Gaps. Catching up with any end of unite tests			

Curriculum Intent:

The study of engineering is the application of maths and science to solve real world problems. This involves an understanding of the different disciplines of engineering and how they have shaped the products and projects of the modern world. Learners will be able to read technical drawings, select appropriate materials along with tools and machinery, and know how to carry out a practical task, working in a safe manner in line with current health and safety legislation. Pass/Merit/Distinction/Distinction* and Level 2 Pass/Merit/Distinction/Distinction*

Key Stage 4 Year 11 – Engineering 2023-24

MALTBY ACADEMY

Half Term 1: 4th Sept - 20st Oct (7 weeks)									
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	October Half-Term Holiday	Week 8	Week 9
Recap on ALL Units covered Review of Nine Mark questions Unit 2: Synoptic Project launch Start of Sept 2023		Setting up the portfolio	Materials Testing and adding work to the portfolio – Upload images	Research Section for the Synoptic Project	Content Area 6 - Produce hand-drawn engineering drawings Content Area 7 - Produce computer-aided design (CAD) engineering drawings			Isometric, Orthographic and Two Point Perspective Homework set via Satchel One	

Half Term 2: 30th Oct - 22nd Dec (8 weeks)						Half Term 3	
Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17
Development of the design drawings, upload scanned images of Isometric, Orthographic and Two Point Perspective and add to the portfolio		Prototype making – Card Homework set via Satchel One		Organising materials, cutting list and starting the practical for the Final project Homework set via Satchel One SMSC – Social/Cultural/Moral Development	Christmas Holiday	Content Area 5 - Understand engineering tools, equipment and machines Organising materials, cutting list and starting the practical for the Final project	

Half Term 3: 8th Jan - 9th Feb (5 weeks)			February Half-Term Holiday	Half Term 4: 19th Feb - 29th March (6 weeks)					
Week 18	Week 19	Week 20		Week 21	Week 22	Week 23	Week 24	Week 25	Week 26
Content Area 5 - Understand engineering tools, equipment and machines Organising materials, cutting list and starting the practical for the Final project				Content Area 5 - Understand engineering tools, equipment and machines Final project – Plan of Manufacture, Gantt Chart and production plan			Content Area 8 - Understand production planning techniques Final evaluation, Learner Log, tidying up portfolios and completion of the Final Project SMSC – Social/Cultural/Moral Development		

Easter Holiday	Half Term 5: 15th April - 24th May (6 weeks)						Spring Bank Holiday	Half Term 6
	Week 27	Week 28	Week 29	Week 30	Week 31	Week 32		Week 33
	Content Area 1 - Engineering Disciplines Recapping and exam preparation Homework set via Satchel One		Content Area 2 - Apply Science and Mathematics in Engineering Recapping and Exam Preparation. CLOSE THE GAPS Homework set via Satchel One		Content Area 3 - Understand how to read engineering drawings Content Area 6 - Produce hand-drawn engineering drawings Homework set via Satchel One			Mini exam! 9 Mark Questions

Half Term 6: 3rd June - 19th July (7 weeks)						
Week 34	Week 35	Week 36	Week 37	Week 38	Week 39	
Content Area 4 - Understand the properties, characteristics and selection of engineering materials Homework set via Satchel One SMSC – Social/Cultural/Moral Development		Content Area 7 - Produce computer-aided design (CAD) engineering drawings Content Area 5 - Understand engineering tools, equipment and machines		Content Area 9 - Apply processing skills and techniques Homework set via Satchel One	June Exam – Unit 1	

<u>Curriculum Intent:</u>

The study of engineering is the application of maths and science to solve real world problems. This involves an understanding of the different disciplines of engineering and how they have shaped the products and projects of the modern world. Learners will be able to read technical drawings, select appropriate materials along with tools and machinery, and know how to carry out a practical task, working in a safe manner in line with current health and safety legislation.

Key Stage 5 Year 12 – Product Design (PRACTICAL) 2023-24

MALTBY ACADEMY

Half Term 1: 4th Sept - 20st Oct (7 weeks)								
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	October Half-Term Holiday	Half Term 2
								Week 8 / Week 9
Introduction to the course and setting up folders	Manufacture of the Lighting Project 3.1.2 Performance characteristics of materials 3.1.4 Forming, redistribution and addition processes 3.2.6 Selecting appropriate tools, equipment and processes							Manufacture of the Lighting Project SMSC – Social/Cultural/Moral Development

Half Term 2: 30th Oct - 22nd Dec (8 weeks)							
Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Christmas Holiday	Half Term 3
							Week 16 / Week 17
3.1.2 Performance characteristics of materials 3.1.4 Forming, redistribution and addition processes		Manufacture of Pewter Cast Item for the Light 3.1.2 Performance characteristics of materials 3.1.4 Forming, redistribution and addition processes 3.2.6 Selecting appropriate tools, equipment and processes					Manufacture of Composite base 3.1.2 Performance characteristics of materials 3.2.6 Selecting appropriate tools, equipment and processes

Half Term 3: 8th Jan - 9th Feb (5 weeks)				Half Term 4: 19th Feb - 29th March (6 weeks)					
Week 18	Week 19	Week 20	February Half-Term Holiday	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26
NEA Practice Project AO1 - Identify, investigate & outline design possibilities SMSC – Social/Cultural/Moral Development				NEA Practice Project – Lighting unit AO2 Design & make prototypes that are fit for purpose SMSC – Social/Cultural/Moral Development			NEA Practice Project – Lighting unit AO3 Analyse and Evaluate		

Easter Holiday	Half Term 5: 15th April - 24th May (6 weeks)						Spring Bank Holiday	Half Term 6
	Week 27	Week 28	Week 29	Week 30	Week 31	Week 32		Week 33
	NEA Project	NEA Final Project – Individual Project Choice AO1 Identify, investigate & outline design possibilities			NEA Project Design Brief/Problem SMSC – Social/Cultural/Moral Development			NEA Project Research Section

Half Term 6: 3rd June - 19th July (7 weeks)						
Week 34	Week 35	Week 36	Week 37	Week 38	Week 39	
NEA Final Project – Individual Project Choice AO2 Initial design drawings, Design & make prototypes that are fit for purpose. SMSC – Social/Cultural/Moral Development			NEA Final Project – Individual Project Choice AO2 Design & make prototypes that are fit for purpose			

Curriculum Intent:

This creative and thought-provoking qualification gives students the practical skills, theoretical knowledge and confidence to succeed in a number of careers. Especially those in the creative industries. They will investigate historical, social, cultural, environmental and economic influences on design and technology, whilst enjoying opportunities to put their learning in to practice by producing prototypes of their choice.

Key Stage 5 Year 12 – Product Design (THEORY) 2023-24

MALTBY ACADEMY

Half Term 1: 4th Sept - 20st Oct (7 weeks)									
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	October Half-Term Holiday	Week 8	Week 9
1.6 Modern and industrial scales of production- terminology, efficient use of materials, use of computer systems. 1.6 Modern and industrial scales of production- JiT manufacture, FMS and sub-assemblies SMSC – Social/Cultural/Moral Development								1.7 Digital design and manufacture- knowledge and understanding of CAD and CAM in manufacturing of product	

Half Term 2: 30th Oct - 22nd Dec (8 weeks)							Half Term 3	
Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Christmas Holiday	Week 16	Week 17
1.7 Digital design and manufacture- knowledge and understanding of CAD and CAM in manufacturing of product SMSC – Social/Cultural/Moral Development							1.8 The requirements for product design and development- aesthetics, ergonomics and anthropometrics	

Half Term 3: 8th Jan - 9th Feb (5 weeks)				Half Term 4: 19th Feb - 29th March (6 weeks)					
Week 18	Week 19	Week 20	February Half-Term Holiday	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26
1.8 The requirements for product design and development- design considerations for control interfaces 1.9 Health and Safety- safe working practices 1.9 Health and Safety- legislation to protect consumers 1.10 Protecting designs and intellectual property				1.11 Design for manufacturing, maintenance, repair and disposal- including the six Rs, maintenance, disassembly relating to their own product with live modelling		1.12 Feasibility studies- modelling in production planning, costings, modelling in design and testing prototypes with live modelling		1.13 Enterprise and marketing in the development of products- customer identification, SMSC – Social/Cultural/Moral Development	

Easter Holiday	Half Term 5: 15th April - 24th May (6 weeks)						Spring Bank Holiday	Half Term 6
	Week 27	Week 28	Week 29	Week 30	Week 31	Week 32		Week 33
	Packaging design, advertising and promotion, then costing of a product. Mock paper included	1.14 Design communication - graphs, tables, charts and how to read them. 2.1 Design methods and processes		2.2 Design theory -design influences, styles and movements SMSC – Social/Cultural/Moral Development		2.3 Technology and cultural changes – Socio-economic influences		2.3 Technology and cultural changes - Major development in technology

Half Term 6: 3rd June - 19th July (7 weeks)						Curriculum Intent:
Week 34	Week 35	Week 36	Week 37	Week 38	Week 39	This creative and thought-provoking qualification gives students the practical skills, theoretical knowledge and confidence to succeed in a number of careers. Especially those in the creative industries. They will investigate historical, social, cultural, environmental and economic influences on design and technology, whilst enjoying opportunities to put their learning in to practice by producing prototypes of their choice.
2.2 Design theory -designers and their work. Looking at the work of Philippe Starck, James Dyson, Margaret Calvert, Dieter Rams, Charles and Ray Eames, Marianne Brandt. SMSC – Social/Cultural/Moral Development						

Key Stage 5 Year 13 – Product Design (PRACTICAL) 2023-24

MALTBY ACADEMY

Half Term 1: 4th Sept - 20st Oct (7 weeks)								
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	October Half-Term Holiday	Half Term 2
								Week 8 Week 9
NEA Project Launch – RECAPPING SMSC – Social/Cultural/Moral Development		Product Analysis ACCESSFM Design Criteria/ Specification Initial design sketches and isometric drawing skills		Writing up the cutting list – ADR to access materials/components list - Cutting list and start of the practical outcome. Prototype modelling/making				Practical – NEA Project Google Sketch-Up and CAD work Material selection, joining materials SMSC – Social/Cultural/Moral Development

Half Term 2: 30th Oct - 22nd Dec (8 weeks)						Christmas Holiday	Half Term 3	
Week 10	Week 11	Week 12	Week 13	Week 14	Week 15		Week 16	Week 17
Practical – NEA Project Manufacturing, adding to the Gantt Chart, plan of manufacture. Uploading making images SMSC – Social/Cultural/Moral Development							Practical – NEA Project Finishing techniques, applying a finish	

Half Term 3: 8th Jan - 9th Feb (5 weeks)			February Half-Term Holiday	Half Term 4: 19th Feb - 29th March (6 weeks)					
Week 18	Week 19	Week 20		Week 21	Week 22	Week 23	Week 24	Week 25	Week 26
Practical – NEA Project Testing and modification				Practical – NEA Project Client views and feedback SMSC – Social/Cultural/Moral Development		Practical – NEA Project Final testing and modification		Diary of making, Gantt charts and plan of making	

Easter Holiday	Half Term 5: 15th April - 24th May (6 weeks)						Spring Bank Holiday	Half Term 6
	Week 27	Week 28	Week 29	Week 30	Week 31	Week 32		Week 33
	Final evaluation and final submission	Preparation for the June exams Materials (processes and characteristics) SMSC – Social/Cultural/Moral Development		Extended questions for the exam		Extended questions for the exam and revision for the exam		Extended questions for the exam and revision for the exam

Half Term 6: 3rd June - 19th July (7 weeks)						Curriculum Intent:
Week 34	Week 35	Week 36	Week 37	Week 38	Week 39	
Extended questions for the exam and revision for the exam			Students have left – Planning for next year starts and materials audit			A-level Design and Technology: Product Design requires students to engage in both practical and theoretical study. This specification requires students to cover design and technology skills and knowledge as set out below. These have been separated into: NEA Project and Coursework Portfolio • Technical principles • Designing and making principles

Key Stage 5 Year 13 – Product Design (THEORY) 2023-24

MALTBY ACADEMY

Half Term 1: 4th Sept - 20st Oct (7 weeks)									
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	October Half-Term Holiday	Week 8	Week 9
2.3 Technology and cultural changes New materials and methods of manufacture SMSC – Social/Cultural/Moral Development			2.3 Technology and cultural changes Major development in technology SMSC – Social/Cultural/Moral Development					2.3 Technology and cultural changes- New materials and methods of manufacture	

Half Term 2: 30th Oct - 22nd Dec (8 weeks)						Christmas Holiday	Half Term 3	
Week 10	Week 11	Week 12	Week 13	Week 14	Week 15		Week 16	Week 17
2.3 Technology and cultural changes - Poverty, health and wellbeing including migration SMSC – Social/Cultural/Moral Development			2.3 Technology and cultural changes - Social, moral and ethical issues SMSC – Social/Cultural/Moral Development				2.7 Accuracy in design and manufacture - live modelling which includes measuring aids, tools and terminology	

Half Term 3: 8th Jan - 9th Feb (5 weeks)			February Half-Term Holiday	Half Term 4: 19th Feb - 29th March (6 weeks)					
Week 18	Week 19	Week 20		Week 21	Week 22	Week 23	Week 24	Week 25	Week 26
2.8 Responsible design- renewable energy systems and Circular economy 2.9 Design for manufacture and project management- project management systems and critical path analysis				2.10 National and international standards in product design SMSC – Social/Cultural/Moral Development		Mock paper – feedback and model answers	Mock paper – feedback and model answers	Extended questions - Mock paper – feedback and model answers	

Easter Holiday	Half Term 5: 15th April - 24th May (6 weeks)						Spring Bank Holiday	Half Term 6
	Week 27	Week 28	Week 29	Week 30	Week 31	Week 32		Week 33
	4.4 Mathematical skills for written exam – Cross curricular with the Maths department. Industrial links and support			Recap over units	Recap over units	Recap over units		Recap over units

Half Term 6: 3rd June - 19th July (7 weeks)						Curriculum Intent:
Week 34	Week 35	Week 36	Week 37	Week 38	Week 39	A-level Design and Technology: Product Design requires students to engage in both practical and theoretical study. This specification requires students to cover design and technology skills and knowledge as set out below. These have been separated into: NEA Project and Coursework Portfolio • Technical principles • Designing and making principles
Recap over units Technical principles and Designing and making principles SMSC – Social/Cultural/Moral Development			Student have left!!			