GCSE Design & Technology 20.21 Curriculum

	AUT 1	AUT 2	SPR1	SPR 2	SUM 1	SUM 2
	21 hours	24 hours	15 Hours	18 hours	18 hours	21 Hours
	22 110013	24 110413	13 110013	15 115415	10 110413	21110013
						NEA
	Book 1	Book 2	Book 3	Book 4	Book 5	11221
				233		A01
	Timber based materials	Designing Principles	Polymers	Year 10 Current Book and add	HCL to merge LMC 1st section	Identify, Investigate & Outline
				systems approach to designing	in with current Summer 1	Design Possibilities
	Sources, Origins & Properties (3)	Industry and Enterprise (8)	Polymers - Sources, Origins &	in and Forces and stresses in.	Booklet	20 Marks"
	courses, evigine an reperior (e)	People, culture, and Society (3)	Properties (7)		20000	20 110110
			(1)	Common Specialist Principles	Designing Principles	A: Identify, Investigate &
	Working with Timber Based	Core Technical Principles	Working with Polymer based	Forces & Stresses on Materials	Informing Design Decisions (5)	Outline Design Possibilities (10
	Materials (8)	Sustainability & the Environment (5)	Materials and Fixings	& Objects (1) From Year 9	Investigation, Primary and	Marks)
	materials (e)		(4)	Mechanical Devices (6)	Secondary Data (3)	,
	Commercial manufacturing, Surface		()		The work of others (2)	Mind Map (2)
	Treatments and Finishes (4)	Ecological & Social Footprint (3)	Commercial manufacturing &	Using angular measurement	Design Strategies (4)	Client and Client Needs (2)
		(c,	Quality Control (4)	in degrees. Determine	- 55.8 53. 5528.55 (1)	Key Features of Existing products
	Practical – Box Project Practical	Designing Principles	Quanty contact (1)	angular movement of		(2)
	(4)			mechanisms	Making principles	Product Analysis (2)
	(-)	Production Techniques & systems	Assessment 2 (1) + Re-teach		9 F	, , , , , , , , , , , , , , , , , , , ,
		(3)	misconceptions (1)		Selection of Materials and	Handling data - Understanding
		Scales of Production (2)	, , , ,	Core Technical Principles	Components (1)	
		` '		Electronic Systems Processing	. , ,	and representing data X N
		Assessment 1 + Reteach		(4)	Tolerances and Allowances (1)	charts. Presentation of data.
Year		Misconceptions (2)		. ,		Diagrams, bar charts and
10					Material Management and	histograms.
10					marking out (5)	
				Book 5 will start during this term		B: Producing a Design Brief &
				based on hours.	Recognise and use	Specification (10 Marks)
					expressions in decimal and	
				7 Hours Practical	standard form.	Design Brief & Specification (4)
						A02
					Calculating surface areas	Design and Make Prototypes
					and volumes -	that are fit for purpose.
					Trigonometry & Area of	60 Marks
					shapes and calculating waste	
					material.	C: Generating Design Ideas (20 Marks)
					Recognise and use expressions	3 Design ideas pages with inspiration
					in decimal and	(9)
					standard form.	
					Tessellation of shapes and	**Taught remotely but had to
					patterns.	reteach face to face when pupils
						returned due to poor engagement

GCSE Design & Technology 20.21 Curriculum

	AUT 1	Aut 2	SPR1	SPR 2	SUM 1	SUM 2
	21 hours	24 hours	15 Hours	18 hours	18 hours	21 Hours
	NEA	NEA	Designing & Making		Exam Revision of key Topics	Exam Season – Revision of key
	A02	A02	Principles			Topics
	Design and Make Prototypes	Design and Make Prototypes	Making principles	Exam Revision of key Topics		
	that are fit for purpose.	that are fit for purpose.				
	60 Marks	60 Marks	FPH to merge this booklet.			
Year 11			Most content already done.			
	D: Developing Design Ideas	E: Realising Design Ideas (20				
	(20 Marks)	Marks)	Specialist tools, equipment.			
		19 Hours	Techniques and processes. (1)			
	Review of ideas against Spec		Surface treatments and			
	(1)	A03	finishes. (3)			
	Card Modelling (6)	Analysing & Evaluating				
	Model Evaluation (1)	20 Marks	Improving Functionality (2)			
	Design Development Sketches					
	(2)	F: Analysing & Evaluating (20	Core Technical Principles			
	Model Development and	Marks)				
	reviews (3)	6 Hours	Energy Generation (3)			
	Parts layout Drawings (1)		Energy Storage (3)			
	Solidworks (7)	MAY 7 th Deadline				
			Six R's (2) Recap – they are			
	Recognising and using	Costing using basic number	taught this for 6 lessons in			
	expression in decimal and	and calculating areas of	year 9			
	standard form. Basic	triangles, rectangles,				
	measuring and number	rectangles and volumes of				
		cubes. To determine material				
		needed and calculate waste				