Year: 10 Subject: DT **Curriculum Intent:** Students will build upon the skills and activities learnt in years 7, 8 & 9 and be introduced to new skills. This will be achieved through a design and make project based upon designing an item to be sold in a gift shop. Throughout this unit of work, students will develop their practical skills through both theoretical and physical tasks and be introduced to the technical language and vocabulary related to this topic. Students will explain and discuss their understanding of what they have read, observed, and practiced justifying the methods and techniques used. This will be evidenced through practical tasks and evaluation of the activities.



	Term 1			Term 2				Term 3			
	Autumi			Spri	ng T	erm	Summer Term			erm	
	Practical	Theory		Practical		Theory		Practical		Theory	
Topic Titles (in order of delivery)	Communication of ideas Design element of Design and make project	 New & Emerging Technologies Scales of Production Energy Storage & Generation New & Smart materials Material Properties Selection of Materials Paper & Boards Finishes Vacuum forming Tolerances 	2.	Making element of design & make project 2D Design making project	1. 2. 3. 4. 5.	Types of Motion Natural & manufactured timber Metals & Alloys Polymers Environmental, social & economic challenges 2D Design Fusion 360 Preparation for PPEs	3.	Set up for NEA Identifying and investigating design possibilities Producing a Design Brief and Specification Generating Design Ideas	1. 2.	PPEs The work of others – Designers & Design Companies Forces & Stresses	
Key knowledge / Retrieval topics	 Orthographic Drawi Projection Isometric drawings Scale drawings Drawing techniques Communication of 	New & Emerging Technologies	1. 2. 3.	Tools & Equipme Design Ventura – design &	or w	Design orkshop practical Types of Motion Natural & manufactured	 Exam Techniques Layout of NEA Pro Set up for NEA NEA Section A NEA Section B 				
Understanding / Sequence of delivery	ideas. 3. Design project	2. Scales of Production3. Energy Storage & Generation4. New & Smart materials	2.	make project 2D Design project	3. 4. 5.	timber Metals & Alloys Polymers Environmental, social & economic challenges	4.	NEA Section B NEA Design Ideas	3.	Designers & Design Companies Forces & Stresses	

		5. Material		6. 2D Design		
		Properties		7. Fusion 360		
		6. Selection of		8. Preparation for		
		Materials		PPEs		
		7. Paper & Boards				
		8. Finishes				
		9. Vacuum forming				
		10. Tolerances				
	In class Assessments	In class assessments	In class assessment	In class assessment	Marked using NEA	In class assessment
Assessment	using NEA mark	End of term test		End of term test	grade boundaries	Seneca
	scheme	Seneca		Seneca		