CURRICULUM Mapping Year 10



4/6 Lessons								EOY Assessment Point
Theory							HT6:	HT1 – HT6
2/6 Lessons						HT5	Overarching unit	
Practical				HT4:	Assessment Point: Summative or AFL	Overarching unit intent:	intent: <u>Designing and</u> making principles	<u>Key Disciplinary</u> <u>Knowledge</u>
	HT2:	Assessment Point:M	HT3: Overarching unit	Polymer additives <u>Textiles</u>	HT3 and HT4 (with elements of HT1 and HT2)	Designing and making principles -	- NEA	Designing and making principles
		Summative or AFL	intent: Smart materials Technical textiles	Natural fibres Cotton – Properties & common uses	Key disciplinary knowledge	NEA Analysis of each	Customer profile Existing products	<u>Key Concepts</u>
HT1: Overarching unit intent:	<u>Overarching unit</u> <u>intent:</u>	<u>Key disciplinary</u> <u>knowledge</u> New and emerging	Understanding a systems approach	Wool Silk	Developments in new	theme Problem/solution	Specification Initial design	Analytical research Continual evaluation and development
Core Technical Principles	Production techniques and systems How the critical	technologies – End of unit test Energy generation and	when designing Systems approach explained	<u>Synthetic fibres</u> Polyester – Properties & common uses	materials – End of unit test Materials and their	Research Design	Development	Innovation and creativity
New and emerging Enterprise Sustainability	evaluation of new and emerging technologies informs design	storage – End of unit test <u>Key Concepts</u> technologies	Input devices Outputs LED's	Nylon Elastane Blended and mixed	working properties – End of unit test	possibilities		
Disposal of waste People Culture	decisions Energy generation and	Industry/Automation/Use of robotics	Buzzers and speakers Mechanical devices	<u>fibres</u> Polycotton	Key Concepts			
Society Environment Designing and making principles	storage Renewable energy Energy storage	Innovation/crowd funding/ virtual marketing & retailing.	Movement – Linear motion Changing magnitude	Wool&nylon <u>Woven fabrics</u> Warp	Modern materials Smart materials			
Xmas project Temporary accommodation over Christmas Design a product to bring xmas cheer	systems, including batteries Developments in new	Co-operative/ Fair trade Finite resources, non- finite resources	and direction of force ratio = Teeth driven	Weft <u>Non woven fabrics</u> Felted fabrics	Technical textiles Paper boards			
to family in temporary shelter. Garment/xmas decoration/kids soft toy, Develop an analytical mood board researching chosen product.	<mark>materials</mark> Modern materials	Ecological footprint/social footprint	Teeth driver <u>Materials and their</u> working properties	Bonded fabrics <u>Knitted textiles</u> Weft knit	Textiles – Natural fibres Synthetic fibres Blended/mixed fibres			
Complete analysis of existing products. (4/6 products must be analysed)	Graphene Metal foam Titanium	Harm caused by landfills, Resource recovery, energy recovery,	Paper and boards Boards	Warp knit Material properties	Woven fabrics Non woven fabrics			
Source a suitable customer and profile the customer Write a specification for the product	Coated metals Liquid crystal display Nanomaterials	incineration Designing products which meet the needs of	Natural and manufactured timbers Hardwoods	Physical properties Mechanical Design and making principles:	Knitted textiles Material properties			
you will design and make Design a suitable product using the profile and specification as guidance	Teflon Corn starch polymers	everyone in society Needs of all groups of	Softwoods Manufactured boards	Mini NEA Problem/solution Analyse task Customer profile				
Create spot and cross patterns of sections		people, inc those with disabilities, cultures Fossil fuels	Metal and alloys Alloys Polymers	Analysis of existing products Specification Design				
Construct garment Test and evaluate garment		Renewable energy		Development Garment construction				

With God all things are possible ${\scriptstyle Matthew 19:26}$

