

	Year 7 Design and Technology			
	Product Design			
Refer Term 1 – September to December				
to	Term 2 – January to March			
	Term 3 – April to July			
	Introduction to workshop skills – Photograph frame (approx. 20 lessons)			
	What are the students learning?			
	Health & Safety in the workshop.			
	Sources, categories and properties of materials.			
	Select and use tools to combine a range of materials into a usable prototype.			
	Test and evaluate a completed product against a range of success criteria.			
	How to evaluate their own designs.			
	What are the key standardised assessments?			
	Practical health & safety - Using the pillar drill.			
	Practical skills – focus on using woods, metals and polymers.			
	Formative assessment – Conversion of timbers.			
	Formative assessment – Environmental impact of polymers.			
	End of unit summative assessment.			
	What are the standardised homework's?			
	Health & Safety			
	Product Analysis			
	Joining woods			
	How to finish materials			



	Year 8 Design and Technology				
Refer to	Term 1 – September to December Term 2 – January to March Term 3 – April to July				
	Material Area: Product Design Developing independent workshop skills – Lighting project (approx. 14 lessons)	Material Area: Product Design Introductions to textiles technology – Tie dye bucket hat. (approx. 14 lessons)			
	 What are the students learning? Health & Safety in the workshop. Analyse the work of past and present designer. Biomimicry How electronic systems can be used in products. Developing design specifications. Generate 'user-centred' creative design ideas. Produce orthographic projections. Select and use tools, with more independence, to combine a range of materials into a usable prototype. Test and evaluate a completed product against own success criteria / specification. 	 What are the students learning? Health & Safety in the workshop. Sources & Origins of materials. Types of material construction methods. Analysis of the design brief and design specification. Environmental impact of fast fashion and sportswear. How materials can be enhanced and developed; tie dye and hand embroidery. Lay planning and pattern cutting. Introduction to the sewing machine. Students worked independently to manufacture the seams of their product. Test and evaluate the manufactured outcome compared to the design brief and design specification. 			
	 What are the key standardised assessments? Design specification (Formative) Generation of design ideas (Formative) (Peer) Development of Ideas (Peer) (Summative) Practical outcome (Summative - Electronics, Enclosure, Final Outcome) Evaluation (Self & Peer) 	 What are the key standardised assessments? Knowledge of Health & Safety (Summative) Sewing Machine driving test (Formative) Research: Are your clothes wrecking the planet (Formative) Practical outcome (Self & Peer) 			
	What are the standardised homework's? Research of Designers	 What are the standardised homework's? Match the fibres to the comments Moodboard 			



 Properties of Materials Finishes Generation of design 	Fabric analysis
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	Year 9 Design and Technology Product Design
Refer to	Term 1 – September to December Term 2 – January to March Term 3 – April to July
	Designing and making – Clock project
	What are the students learning?
	 Forces and Structures – Spaghetti bridge building Sustainable design – The 6 R's
	CAD/CAM - Using CAD software
	Ergonomics & Anthropometrics
	Smart materials Hearting decimals the larger
	 Iterative design challenge Mechanisms
	Design and make assignment – Passive speaker
	What are the key standardised assessments?
	Peer assessment – Sustainable design task / Mechanism questions
	Self-assessment – CAD task / Tools and equipment
	 Teacher assessment – Ergonomics design task / Iterative design task / Passive speaker End of unit Aspire assessment
	End of drift Asplie assessment
	What are the standardised homework's?
	 The 6R's Sustainable resources
	Sustainable resources Ergonomic design task
	Iterative design – specification
	Passive speaker – design task