(facts, information, concepts •			mlating four areas of study nor yoor (or		
(facts, information, concepts and key terminology)				nrovimately 10 weeks) of Product Design	
(facts, information, concepts and key terminology)	Ergonomics and usability.	The curriculum is organised on a rotational basis, with all students completing four areas of study per year (approximately 10 weeks) of Product Design (multi materials), Product Design (resistant materials), Textiles & Food & Nutrition			
•	(aluminium, acrylic).	 Designing to meet the needs of a specific user or audience. Health and safety in an engineering/product design workshop Manufacturing processes including CAD/CAM Working properties of various materials. Dimensions and tolerance. Wood joints and joining methods. 	 Reinforce the iterative design process. Investigating the work of other designers. Use research analysis to focus design ideas for a specified user. Revision of health and safety. Fairtrade organic cotton, its properties and its importance in society and its affects globally. Textiles manufacturing processes. 	 Reinforce hygiene and safety rules and procedures. Analyse a given task/brief. Know different research methods used to investigate a topic/theme. Tools used to calculate/assess health – BMI. Choosing an appropriate recipe. Function of ingredients – Bread. Conducting a sensory analysis. 	
Understanding (ability to connect and synthesise knowledge within a context) • • • • •	to manufacture products. How to respond to a design context & brief through focused analysis. Generating ideas that consider research analysis and the needs of an identified user.	 How designers analyse information in response to a design context or brief. Use specialist product design tools and equipment to manufacture products. Evaluate their work as it develops to meets the requirements of the design brief and user. Increase independence through following demonstrations and instructions. 	 How to respond to a design context & brief through focused analysis. Generating ideas that consider research analysis and the needs of an identified user. Use specialist tools and equipment to manufacture products. Evaluate work as it develops to ensure their product meets the requirements of the context/user. 	 Making a time plan/production plan. How to analyse a design brief and identify key areas for research. Use of secondary research (internet) to develor appropriate dishes that meet the demands of the task. Selecting recipes and plan the making of them including presentation and adhering to correct safety rules/procedures. Evaluate work as it develops and adapt as necessary. 	
Skills (successful application of knowledge and understanding to a specific task) •	Analysing information related to the context, design brief and research. Use analysis to influence idea generation. Making products using specialist engineering and product design processes (shaping, forming, turning, riveting, finishing).	 Analysing information related to the context or design brief. Generating ideas suitable for an intended user or audience. Be able to match the correct tool/machine/process to the material with accuracy. Correct use of subject specific tools and machinery to sand, cut, shape, drill, join, finish. Applying knowledge of materials to shaping processes. 	 Analysing information related to the context, design brief and research. Use analysis to influence idea generation. Applying knowledge of materials to manufacture products using specialist textile processes to hand & machine sew, cut, shape, join and decorate (tie dye, applique) materials. Evaluate ideas and practical work as it develops and review the success & areas for improvement. 	 Analysing information related to a design brief Selecting concise and relevant research materials and using the information to create an appropriate product. Creating and following a time plan/ method of making, independently. Making products using specialist food equipment and techniques (bride and claw, weighing and measuring, presentation) Conducting sensory analysis and using it to evaluate dishes identifying areas for improvement. 	

All decisions made in the design or making stages have been evaluated and justified and improvements or modifications considered.