

Ks5 year 12

Product Design	Introduction – The first two terms are about building up student's skills through a series of small-scale design and make tasks. These will be based about the possible project routes they could take for their NEA. Theory will be interleaved in during the course.	Interior design project looking at developing the sixth form study area. Manufacture and evaluation.	Toothbrush project – Introduction to 3D printing and Fusion 360. The first part of this product looks at product design and development.	Begin NEA Identification and investigation of a design possibility.	NEA – Specification and initial generation of design ideas	NEA –Generation and development of ideas of design ideas
	Interior design project looking at developing the sixth form study area. Research and design development.	Branding POS project Biomimicry project Lighting project.	Till roll dispenser. Making use of mechanical fixtures and fittings. Learning about different joining and production methods.	Investigation of needs and research	Theory	Theory
	Branding/logo design project	Theory - Processes, techniques and specialist tools (Unit 3) Digital Technologies (Unit 4) Manufacturing processes	Theory - Effects of technological Developments (Unit 6) Features of manufacturing industries (Unit 8)	Theory - Designing for maintenance and the cleaner environment (Unit 9)	Unit 5: Factors influencing the development of products Unit 7: Potential hazards and risk assessment	Numeracy in DT
	Lighting project.					

	Pop up mechanism and card/book project					
	Theory - Theory of materials Factors influencing the development of products (Unit 5)					
	Anthropometrics, Ergonomics, Design movements.					
	Materials (Unit 1) Performance characteristics of materials (Unit 2)					

KS5 year 13

Product Design	NEA: Design ideas and development Theory: Topic 8: Features of manufacturing industries Topic 9: Designing for maintenance and	NEA: Final design, planning and making of final prototype Theory: Safe working practices, Potential	NEA: Making of final prototype Theory: Topic 1: Materials Topic 2: Performance characteristics of materials Topic 3:	NEA: Evaluating own design and prototype Theory: Final exam preparation	Final Examination	
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	the cleaner environment Topic 10: Current legislation Topic 11: Information handling, Modelling and forward planning Topic 12: Further processes and techniques. Recap Topic 1: Materials Topic 2: Performance characteristics of materials Numeracy in DT	hazards and risk assessment Information handling, modelling and forward planning Topic 4: Digital technologies Topic 5: Factors influencing the development of products Topic 6: Effects of technological developments Topic 7: Potential hazards and risk assessment Numeracy in DT	Processes and techniques Exam preparation			
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