

Year 7 (3 Rotations of approx. 12 weeks each) - CLOCK DESIGN AND MAKE PROJECT				Year 8 (3 Rotations of approx. 12 weeks each) – clock to communicate sustainability, sunglasses 3D CAD		
Electronics, research, specification, safety, designing, plastics , hand tools, machinery, programming Exam CAT 1: designing CAT2: making				Sustainability, computer control, woods, CAD CAM, mass production, forming, 3D CAD Exam CAT 1: designing CAT2: making		
Year 9 (2 Rotations of approx. 14 weeks each) - PRODUCT DESIGN						
History of technology, product evolution, enterprise, user-centred design, prototyping, polymers, mass production processes, 3D CAD, 3D printing, sustainability, bioplastics, Exam CAT 1: designing CAT2: making						
Year 10 Assessment – Common Tasks for topics 4 & 5. Pupils made aware of weightings at autumn grade point. Mock Exam is Common Assessed Task 3.						
Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	
OIL BURNER MAKING TASK	DESKTOP PUBLISHING	ARCHITECTURAL DESIGN	PROTOTYPING	SYSTEMS AND CONTROL PRODUCT STYLING		NEA INTRODUCTION
working drawings, woods, metals, plastics	Photoshop, prototyping compliant materials smart materials	planning for disasters perspective drawing interior design scale	Zaha Hadid, Heatherwick Studios, Tesla composite materials eg concrete energy,structures, textiles	programmable components mechanisms, ratios	School Exams	Choosing themes/ research
Year 11 Common Task dates given in brackets						
Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	
NEA research and designing	NEA development and planning	NEA making	NEA making and evaluating	Revision		
Year 12 Common Task dates given in brackets						
Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	
Materials, properties, safety	Processes, accuracy, CAD CAM	Ergonomics, design history, major technologies	Making: accuracy, quality control	Sustainability, product life cycle	School Exams	
				NEA: choosing themes		NEA researching
Year 13 Common Task dates given in brackets						
Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	
MAIN THEME	Volumes of production, manufacturing systems	MOCK EXAMS	Copyright, consumer rights	Design strategy		
NEA researching and designing	NEA development and planning NEA	NEA making	NEA making and evaluating	Exam preparation		