

Technology Curriculum Map KS 3 and 4 2022/2023

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
7	Rotation 1: Siege Weapons Health and Safety in the workshop Basic Joints – Use of hand tools in the workshop Working Drawings Collaborative designing Making Skills – focus on Wood		Rotation 2: Elements 2 dyeing techniques – tie dye & batik 2 printing techniques – stencilling & block Safe and correct use of the Sewing Machine Core design skills		Rotation 3: ITLogging inEmail safetyPracticing emailInternet searching and sourcingLearning how to use ExcelLearning how to use wordCreating a reportMicrobit ProgrammingBlock EditingLogic StatementsInputs and OutputsComputer Aided Design 2Computer Aided Manufacture 2Vacuum FormingLogo DevelopmentMarketing	Rotation 4: Food Hygiene and safety Eatwell guide/healthy eating Knife skills/how and why we cook food Cereals and staple foods Milk and dairy Meat and fish Eggs
8	Rotation 1: Automata Modelling Skills Cam Mechanisms Material use – Manufactured Boards and Natural Timbers CAD/CAM - linkages	Rotation 2: Sustainable Design Electronic component symbols Environmentally conscious design – 6R's Soldering Skill – Practical Design – sketching & CAD Mould Making & Thermoforming	Rotation 3: Upcycling Factors influencing design Product Branding Environmental issues associated with manufacture of denim Design and Manufacture of upcycled denim product	Rotation 4: IT Research topic skills Storyboards for Flash Animation/Movie Learn how to use Flash software and create animation Filming Windows live moviemaker	Rotation 5: Food Food choice and nutrition Bread Functions of ingredients; pastry/cakes/gelatinisat Multicultural influences Availability of food	ion
g	Topic: Focus Skill ProjectFocus project on the student specified area with design work/research to supportAdvancing practical skillsCore Knowledge: New and Emerging Technologies	Topic: Focus Skill Project Focus project on the student specified area with design work/research to support Advancing practical skills Core Knowledge: Energy Generation	Topic: Mini Rotations – Core Material KnowledgePupils complete 4 2 week rotations covering key material knowledge and working properties.Core Knowledge: Materials Categories	Topic:Completing Mini Rotations & Core KnowledgeTestingEnd of module testCore Knowledge: Materials CategoriesCore Knowledge: Smart and Modern Materials	Topic:Multi Material Focus projectA project which focusses on at least 2 materials from these areas: Timber/Polymers/Metals/Textile/GraphicsCore Knowledge:Systems approach to designCore Knowledge:Materials Properties / Stock Forms	Topic:Multi Material Focus projectA project which focusses on at least 2 materials from these areas: Timber/Polymers/Metals/Textile/GraphicsFinish and EvaluateCore Knowledge:Design Movements/DesignersCore Knowledge:Materials Properties / Stock Forms

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10 Topic: Core knowledge and Specific area theory and Specific area theory Topic: Introduction and start of MockNEA (Non-Examined Assessment/Coursework) Topic: Mock NEA Topic: Mock NEA Topic: Mock NEA 7 Test - Modern/Smart Materials - Research - Modelling - Modelling - Experience of NEA and its crit 6 Core Knowledge: Modern and Smart Materials - Initial Designs Core Knowledge: Modern and Smart Materials - Initial Designs Core Knowledge: Modern and Smart Materials - Initial Designs Core Knowledge: Modern and Smart Materials - Initial Designs Core Knowledge: Modern and Smart Materials - Initial Designs Core Knowledge: Modern and Smart Materials - Initial Designs Core Knowledge: Modern and Smart Materials - Initial Designs Core Knowledge: Methanical Devices Core Knowledge: Material Devices Advanced Practical skills & Core Toppeties	eria /
and Specific area theory MockNEA (Non-Examined Assessment/Coursework) - Initial Designs - Final designs - Completion of Prototype Test - Modern/Smart - Nesearch - Development - Manufacture of - Evaluation of final production Materials - Specification - Modelling - Prototype - Experience of NEA and its crittion Core Knowledge: Modern - Initial Designs Core Knowledge: Mechanical Core Knowledge: Material Advanced Practical skills & Core	eria /
Image: stable	eria /
Test - Modern/Smart - Development - Manufacture of - Evaluation of final production Materials - Research - Modelling - Prototype - Operation - Specification - Specification - Core Knowledge: Modern Core Knowledge: Modern - Initial Designs Core Knowledge: Mechanical Core Knowledge: Material - Advanced Practical skills & Core	eria /
Materials - Research - Modelling Prototype - Specification - Specification Experience of NEA and its crit Core Knowledge: Modern - Initial Designs Core Knowledge: Mechanical Core Knowledge: Material	eria /
- Specification - Experience of NEA and its crit Core Knowledge: Modern - Initial Designs Core Knowledge: Mechanical Core Knowledge: Material Experience of NEA and its crit	
Core Knowledge: Modern - Initial Designs Core Knowledge: Mechanical Core Knowledge: Material Advanced Practical skills & Co	
Focus Material Area Core Knowledge: Energy Storage Experience of NEA and its Experience of NEA and its	
Experience of NEA and its criteria criteria Preparation for Year 10 Mock	Exam
criteria Practical skills &	
Construction Techniques.	
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11 Topic: Final NEA (50% Topic: Final NEA (50% GCSE) Topic: Final NEA (50% GCSE) Topic: Final NEA (50% GCSE) Topic: Preparation for final examples of the	<u>-</u>
Pupils continue NEA as main focus Pupils continue NEA as main Pupils finish NEA as main focus Revision and Review of prior learn	aing
	iing
- Plan of Manufacture - Manufacture of Final Prototype Complete Exam Technique	
- Initial Designs Prototype - Testing and Evaluation	
- Development Mock Exam – Full 2 hours - Manufacturing Diary - HAND IN	
- Modelling	
Mock Exam Preparation Core Knowledge: Materials and Core Knowledge: Specialist	
NEA - Coursework Core Knowledge: Mechanical their working properties Technical Principles (Reteach)	
Core Knowledge: Materials Devices (Reteach) Core Knowledge: Specialist	
and their working Technical Principles (Reteach)	
properties(Reteach)	

n	Topic: Final NEA (50% GCSE)Release of titles from Exam BoardPupils start initial research:- Task Analysis- Primary Research- Secondary Research- Specification
	Topic:Final NEA (50% GCSE)Pupils continue NEA from end of Year 10Initial Designs-Development-Modelling
	NEA - Coursework Core Knowledge: Materials and their working properties(Reteach)