	Unit 1
Year 7 curriculum overview	Introduction to workshop - health and safety and use of tools and equipment to create a high quality jewellery box with moveable parts.
Skills	 Health and safety awareness Workshop tools Measuring and marking Cutting and shaping Joining and finishing Material properties (timbers) Drawing techniques Scaled drawings Isometric rendering
Personal Development links	Mental Health H9 • Setbacks with work Healthy lifestyles H13, H14 • time spent on specific activities Managing risk and personal safety H30, H31 • Workshop safety Social influences R42 • Active tasks in the workshop - ensuring a good working environment. Sustainability • Understanding the role designers have Environment
Career links	Product designer craftsperson

	Unit 1
Year 8 curriculum overview	Desk Tidy project. Deeper depth of workshop tools and equipment with a greater focus on quality control measures
Skills	 Manufacturing specification mastery Greater depth of workshop tools and equipment Measuring and marking with various tools Measuring and shaping with jigs and formers. Joining and finishing with more emphasis for surface preparation Working understanding of a variety of woodworking joints. Tolerances and quality control Technical drawing skills Orthographic projection Exploded diagrams Waste calculations
Personal Development links	Mental Health H9 • Setbacks with work Healthy lifestyles H13, H14 • time spent on specific activities Managing risk and personal safety H30, H31 • Workshop safety Social influences R42 • Active tasks in the workshop - ensuring a good working environment. Project management • Understanding the orders of tasks and the timing
Career links	Product Designer Joinery

	Autumn 1
Year 9 curriculum overview	A-Maze project: Students work through a manufacturing understanding of best use of material which takes into account nesting/tessellation and material wastage.
Skills	Cross curricular links with Maths: Area Volume Percentages Full working out and methods Designing skills developed further through maze design Development of technical drawing skills with a range of strategies: Plan views (orthographic) Sometric drawing CAD - sketch up Model making Understanding of materials and properties
Personal Development links	 Project management Understanding the orders of tasks and the timing Implications on real world concerns Overuse of resources Reduction in material consumption.
Career links	Electrician Engineering Surveyor Architecture

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10 curriculum overview	Task light project: Part 1 Research and investigation into the needs and wants of consumers Product evaluations Designing creative ideas and planning for manufacture. Content: 3.1 Core technical principle focus 3.1.1 - 3.1.3	Task light project: Part 2 Manufacturing of final product including electronics and final finish Evaluation and analysis of the final product Content: 3.1 Core technical principles focus: 3.1.4 - 3.1.6	Marble run competition: Group activity to create a run which meets specific requirements. Content: 3.2 Specialist technical principle focus: 3.2.1 - 3.2.4	Desk Tidy Modeling project: Students create a range of ideas with one being chosen to develop three times through modelling techniques and materials Content: 3.2 Specialist technical principle focus: 3.2.5 - 3.2.9	Technical drawing project. Students work through a range of technical drawing techniques Content: 3.3 Designing and making principles focus: 3.3.1 - 3.3.4	NEA introduction and completion of Section A and B Content 3.3 Designing and making principles focus: 3.3.5 - 3.3.8
Skills	Investigation: research techniques into consumer needs and existing solutions Reasoning: selective with the data and information collected Justification: design specifications require justification along with a clear understanding between the essential and the desirable inclusion of ACCESS FM Creativity: designing with flair and innovation through strategies which avoid design fixation.	 Problem solving: Measuring and marking out Cutting and shaping Joining and finishing Electronic systems. Realisation of idea: Being able to successfully see the construction of a product from start to finish. Evaluation: Reflecting on the work created and identifying areas for improvement. 	Designer collaboration: Students work in groups, sharing ideas and critiquing suggestions. Creativity: Students will create a unique model Problem solving: Student will be checking the success of their product at various stages to ensure that it meets the specified requirements	Creativity: Design ideas are produced which avoid design fixation and show a good level of innovation Modelling: trialling prototypes to see how they function Iteratively thinking: Evaluation at each stage of development Reasoning with decisions to inform change. Testing out ideas.	Communication: Through a range of drawing techniques students will be presenting ideas and drawing with technical information Handling data: Orthographic data and exploded diagrams require precision marking and an understanding of logical placements of multiple components. Drawing techniques: A focus on 3.3.5 Communication of design ideas to represent ideas.	Investigation: Exploring design possibilities based on a design contextual challenge set by AQA Reasoning: Backing up the choices through each of the threads in early exploratory work Justification: Design specification requirements require justification to reflect the investigation and contextual challenge.

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Personal Development links	 Project management Understanding the orders of tasks and the timing Implications on real world concerns Overuse of resources Reduction in material consumption. 	 Project management Understanding the orders of tasks and the timing Curiosity Selecting and understanding a range of media and tools 	Project management • Understanding the orders of tasks and the timing Collaboration • Working with others • Team building • Roles Leadership and responsibility • Roles and responsibilities • Skill identification	Creativity Expressing Relating Time management Following a set schedule (not one designed by themselves) 	Creativity • Expressing • Relating	 Project management Understanding the orders of tasks and the timing
Career links	Research	Product Designer Tradesperson Construction manager	Dyson design challenge Engineering Project manager	Product Designer Architecture	Draftsperson Engineering	Researcher Data analysis

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 11 curriculum overview	NEA continuation with Sections C and D. Content: 3.3 Designing and making principles focus 3.3.10 - 3.3.11	NEA continuation with Sections D and E Content: 3.1 Core technical principles Focus on specific areas which have	NEA continuation with Sections E and F Content: 3.2 Specialist technical principles Focus on specific areas which have	Content: 3.3 Designing and making principles Focus on specific areas which have underperformed based on collected data from year 10 and 11	NEA submission to AQA Focussed skills toward Final Focus on 3.3.5 Long answer format questic	

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		underperformed based on collected data from year 10 and 11 Trends indicate: 3.1.2 and 3.1.3	underperformed based on collected data from year 10 and 11 Trends indicate: 3.2.2 and 3.2.9	Trends indicate: 3.3.4, 3.3.5 and 3.3.11	
Skills	Creativity: designing with flair and innovation through strategies which avoid design fixation. Communication: Applying further details and information to each design idea and later, developments. Realisation: Moving ideas from 2D into 3D	Practical: Workshop skills used to select and use a variety of tools and equipment. Problem solving: Measuring and marking out Cutting and shaping Joining and finishing Electronic systems. Evaluation	Selection of materials or components: Functionality, Aesthetics, environmental factors, availability, cost, social factors and ethical factors. Surface treatments and finishes: Preparation and application of treatments and finishes to enhance functions and aesthetics - Painting varnishing and tanalising	Greater depth of knowledge from selected units: Understanding the need for iterative design and how designers can avoid design fixation. Working through the skills needed to complete technical drawings from orthographic understanding to 2 point perspectives drawing. Greeted look into Specialist techniques and processes with a focus on knowing when specific actions of tools and equipment are elected.	Communication: Cross Curricular based: Focus on maths skills: Area Volume Ratio Percentages Graph creation: Bar charts Pie charts Focus on science skills Understanding material extraction and conversion Impact on the environment Sustainability issues Clean energy Finite resources Energy consumption.
Personal Development links	Project management Understanding the orders of tasks and the timing 	Project management Understanding the orders of tasks and the timing 	Project management Understanding the orders of tasks and the timing 	Creativity • Realisation • Development Sense of accomplishment • Start to finish technical drawings • Drawings across	 Problem solving Reasoning Logical Process based.

				disciplines			
Career links	Graphic Designer						
	Product Designer						
	Illustrator						
	Maths related						
	Architect						
			environr	nentalist			