

Curriculum Overview – Year 8 Product Design

Year	Term	Unit/s of Work	Assessment	Practical Work Includes:
8	1	<p>Superhero Clock Project</p> <ul style="list-style-type: none"> • Introduction to Sketching • Tone and Shading • Rendering for Design 	<ul style="list-style-type: none"> • Research stage – Investigation into the 6 R’s of sustainability as well as moral, cultural, economic and environmental impacts. • Design ideas – Ability to generate a range of suitable design proposals to suit the design brief. • Development – Ability to develop a chosen design idea and justify improvements. • Making – Ability to produce a quality and functioning final product • Evaluation – Students will evaluate their final product against the specification and design brief. 	<ul style="list-style-type: none"> • Marking out on Timber. • Cutting using coping and scroll saws. • Filing and Sanding techniques. • Drilling using the pillar drill. • Finishing using abrasive papers, varnishes and paint finishes. • Painting
	2	<p>Storage Box Project</p> <ul style="list-style-type: none"> • Research Existing Products • Theme and Mood Board • Properties of Woods • Design Development • Introduction to CAD/CAM • Workshop Practices • Testing and Evaluation 	<ul style="list-style-type: none"> • Research Stage – Investigation into different types of wood joints. • Design Ideas – Ability to transfer a hand drawn design into a CAD format. • Making – The ability to create 2 different wood joints accurately. • Making – The ability to finish a timber product to a high standard • Making – The ability to successfully cut and etch a box lid using the Laser Cutter (CAM) • Evaluation – The ability to evaluate own skill set and set future targets. 	<ul style="list-style-type: none"> • 2D Design (CAD) • Measuring and marking out. • Cutting using a Junior Hacksaw. • Finishing Plastics: filing, using abrasive papers and polishing.
	3	<p>Jewellery Project</p> <ul style="list-style-type: none"> • Research Existing Products • Theme & Mood Board • Properties of Metals • Design Development • Introduction to CAD/CAM • Casting with Pewter • Workshop Practices 	<ul style="list-style-type: none"> • Further investigation into the process of metal casting and finishing techniques. • Design ideas – Ability to generate a range of suitable design proposals to suit the design brief. • Development – Ability to develop a chosen design idea and justify improvements. • Making – Ability to produce a quality and functioning final product. • Evaluation – Students will evaluate their final product against the specification and design brief. 	<ul style="list-style-type: none"> • Casting Process: Metals • Finishing metals: Filing, abrasive papers and Polishing. • Drilling using a Pillar Drill.

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