



Year 8 Design & Technology Curriculum Plan

	Key concept/ Key question	Overview of the unit	Assessment	Cross Curricular Skills	Suggested reading material and websites:
Unit 1 Pewter Casting jewellery	Design movements , Casting methods, metal work,	<p>Students will learn what a design movement is and how design has changed over time.</p> <p>They will research into art nouveau, art Deco, De Stijl and Bauhaus. This will then inspire their design ideas for their pewter jewellery.</p> <p>Skills developed: Sketching, rendering, annotating, cutting, folding</p> <p>Knowledge developed: Identifying a target market, developing questionnaires, writing specifications, designing NETs, Evaluation</p>	<p>Formative assessment through coursework.</p> <p>Peer and self-assessment throughout project.</p>	<p>Literacy: Key words to describe materials and processes.</p> <p>Numeracy: Measuring, planning and costing, working in a logical manner through design process.</p> <p>Thinking Skills: Teamwork, creative thinking,</p>	Technologystudents.com GCSE bitesize.
Unit 2 Sweet dispenser	Cutting, filing, sanding, assembling of component.	<p>Students work with MDF to cut and assemble a product to create a sweet dispenser.</p> <p>Students will follow demonstrations and work using a variety of tools to create a mechanism to allow sweets to dispense.</p> <p>Pupils will bring in a recycled jar and attach this to their product before decorating with their own designed stickers.</p> <p>Skills developed: cutting, filing, paper, drilling, use of fret saw, laser cutting</p>	<p>Formative assessment through coursework.</p> <p>Peer and self-assessment throughout project</p>	<p>Literacy: Key words to describe materials and processes.</p> <p>Numeracy: Measuring, planning and costing, working in a logical manner through design process.</p> <p>Thinking Skills: Teamwork, creative thinking,</p>	Technologystudents.com GCSE bitesize.

		<p>Knowledge developed: Working with woods, technical cutting skills and assembly of parts, complete production plans. Orthographic projection drawings.</p>			
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<p>Unit 3 Play the Record!</p>	<p>Perspective drawing, properties of woods, workshop machinery</p>	<p>Students research into designer Paul coxsedge and how he experiments and manipulates materials to create new products.</p> <p>Students also look at upcycling and consider sustainability in design and its importance in the design industry.</p> <p>Student's upcycle an old Vinyl record into a music amplifier through sue of thermoforming and jigs. Students then model and create a stand for their upcycled record.</p> <p>Skills developed: Press forming, thermoforming, modelling using card, CAD/CAM</p> <p>Knowledge developed: Sustainability and the 6 R's, upcycling, modelling, thermoforming process, vacuum forming process.</p>	<p>Formative assessment through coursework.</p> <p>Peer and self-assessment throughout project.</p>	<p>Literacy: Key words to describe materials and processes. Numeracy: Measuring, planning and costing, working in a logical manner through design process. Thinking Skills: Teamwork, creative thinking,</p>	<p>Technologystudents.com GCSE bitesize.</p>