





Curriculum Overview for Design Technology

Year 8

<p>Term 3: Creating an Egg Holder and 3D inspirational portrait</p> <p>Substantive Knowledge:</p> <ul style="list-style-type: none"> ✓ How to heat plastic ✓ How to use formers correctly to manipulate plastics ✓ How to drill through plastic safely. ✓ The understanding of different drill heads and what they do. ✓ To be able to access and use 2D design to create designs on the laser cutter. ✓ To safely use a file. ✓ To safely use and vice. ✓ To use wet and dry paper of different gradients to create a clean and safe finish. ✓ How to apply acrylics together ✓ Promotional and inspirational design. ✓ How past designers can support and inspire future design, <p>Disciplinary Knowledge:</p> <ul style="list-style-type: none"> ✓ How plastic is heated using a line bender in line with health and safety guidance and the correct techniques and processes. ✓ What formers are used for, different types of formers and how they prevent us from getting burnt. ✓ To make sure that correct process and PPE is used when drilling with a pillar drill. ✓ Demonstration of 2D design and how black and red lines effect definite cuts and engraved areas in line with the laser cutter. ✓ Health and safety use of a file and its initial purpose in polymer finishes. How wet and dry sandpaper finishes polymers to a high standard. This reduces risk of cutting. ✓ Different types of adhesives and which are appropriate and safe for polymers. 		Decoding of keywords. Opportunities for extended knowledge theory
		Aesthetics 2d design. Computer aided Design Computer aided Manufacture Acrylic Polymers Line bender Formers Ergonomics and Anthropometrics Thermoforming and Thermoset plastics Drawing to Scale Millimetres Specialist Equipment Nets Prototypes Laser cutter Wet and dry sanding Files Pillar drill ACCESS FM Evaluating
		Recall tasks Review sheet End of unit test Mini white board activities
		Chronological homework tasks. Research tasks so students learn about design in the wider world in relation to past, current and future artifacts.

Curriculum Overview for Design Technology
Year 8

✓ How previous design research can help and support future creations. This will help identify strengths and weaknesses in line with the topic theme.		
--	--	--