

Curriculum Overview – Design Technology Y9

Year	Term	Units of Work	Assessment
9	1	<p><b>Clock</b> Rationale: To introduce pupils to a number of new materials, tools, equipment and machinery used in the workshop and reinforce their understanding of those used previously. To introduce pupils to different types of wood joint. To develop pupils' ability to evaluate.</p> <p><b>CAD CAM 2 (2D Design)</b> Rationale: To reinforce pupils' understanding of 'CAD' and 'CAM'. To develop pupils' general ability to use 2D Design. To teach pupils how to use 2D Design to produce accurate 2D drawings with accurate dimensioning.</p> <p><b>CAD CAM 2 (Google Sketch Up)</b> Rationale: To reinforce pupils' understanding of 'CAD' and 'CAM'. To introduce pupils to 'Google Sketch Up' and 3D CAD modelling. To teach pupils how to use Sketch Up to produce a range of different, realistic, 3D designs.</p>	<p><b>Design</b> – Pupils must produce a range of design ideas for a clock.</p> <p><b>Manufacturing</b> – Pupils must use a range of tools, equipment and machinery to make their favourite clock design idea from a number of different types of timber.</p> <p><b>Evaluation</b> – Pupils must evaluate the clock they have produced, (identifying what they learnt, found difficult and found easy) and set targets to help them improve in the future.</p> <p><b>Technical Understanding</b> – Pupils must complete a geometric shapes drawing task using CAD in a set time. Pupils must draw the shapes exactly as shown and add appropriate dimensions.</p>

	2	<p><b>Cube Craft Figure</b> Rationale: To develop pupils' ability to use existing products to inspire design. To introduce pupils to 'orthographic drawing'. To develop pupils' ability to design in 2D. To develop modelling skills. To develop pupils' ability to evaluate.</p>	<p><b>Design</b> – Pupils must produce a range of design ideas for a Cube Craft figure.</p> <p><b>Technical Understanding</b> – Pupils must produce a third angle orthographic drawing of their favourite Cube Craft design idea, which they can then use to help apply their graphics during manufacturing.</p> <p><b>Manufacturing</b> – Pupils must use a range of tools and equipment to make their favourite Cube Craft design idea.</p> <p><b>Evaluation</b> – Pupils must evaluate the Cube Craft figure they have produced, (identifying what they learnt, found difficult and found easy) and set targets to help them improve in the future.</p>
	3	<p><b>Food Technology</b> Rationale: To develop pupils' understanding of the Eatwell Guide. Develop safety and hygiene practice in the food rooms. To develop pupils understanding of different ingredients used to prepare and cook dishes. To develop pupils' ability to work independently and as part of a team.</p> <p><b>Textiles Cushion</b> Rationale: To understand how designers use existing products and a theme to develop creative ideas for products. To develop pupils' ability to use a variety of tools and equipment including the sewing machine safely. To introduce pupils</p>	<p><b>Design</b> – Pupils produce design ideas for food products that can be sold in a bakery.</p> <p><b>Manufacturing</b> – Pupils use different parts of the cooker, a range of equipment and methods to make cookies, muffins, sausage rolls, cupcakes, bread and pizza.</p> <p><b>Evaluation</b> – Pupils evaluate WWW and EBI (identifying what they learnt, found difficult and found easy) and set targets to help them improve in the future.</p> <p><b>Technical Understanding</b> – Pupils complete a booklet focusing on production systems and food components.</p> <p><b>Design</b> – Pupils must produce a range of design ideas for cushions.</p> <p><b>Technical Understanding</b> – Pupils must work through the method to complete cut and slash and a range of other decorative techniques. They will demonstrate understanding when annotating design ideas.</p> <p><b>Manufacturing</b> – Pupils demonstrate their ability to control and use the sewing machine safely. They learn the method for applique, couching</p>

		<p>to the method of cut and slash when decorating fabric. To develop pupils understanding about construction.</p>	<p>and applying ribbon to decorate their pocket. The wall hanging must be constructed using the sewing machine and pupils are encouraged to incorporate a variety of decorative techniques to produce a quality product.</p> <p><b>Evaluation</b> – Pupils must evaluate the cushion they have produced, (identifying what they learnt, found difficult and found easy) and set targets to help them improve in the future.</p>
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