



	Early Years	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Subject Domain:</p> <p>Design, make, evaluate and improve.</p>		<p>Design products that have a definite function for a particular person. (Xmas card).</p> <p>Make products to meet basic design brief.</p>	<p>Design and make products, modifying the product as the project evolves: (house model).</p>	<p>Produce designs with a clear purpose having explored needs, food packaging.</p> <p>Select materials carefully to suit the design and use.</p>	<p>Refine methods and design as work progresses, constantly reassessing design.</p> <p>Use computer packages to design and model products.</p>	<p>Design by considering the user, prioritising good function before profit.</p> <p>Produce several prototypes each building upon the previous to optimise design.</p>	<p>Produce a good quality finish to products using art techniques.</p> <p>Include designing processes such as prototypes, cross-sectional diagrams and CAD.</p>
<p>Subject Domain:</p> <p>Food</p>		<p>Select from and use ingredients according to their characteristics. (Healthy sandwich)</p>	<p>Safely cut, peel or grate ingredients in a hygienic manner (fruit salad)</p> <p>Use measuring cups or electronic scales to measure the required amounts</p> <p>Combine ingredients to produce food.</p>	<p>Use correct utensils to hygienically prepare food.</p> <p>Combine and or cook.</p>			<p>Understand how to store and handle food and ingredients properly.</p> <p>Invent and modify own recipes including ingredients, methods, cooking times and temperatures.</p>



<p>Subject Domain: Textiles</p>		<p>Use a running stitch to join fabric.</p> <p>Use methods such as dyeing, adding sequins or printing alter the appearance of fabric.</p> <p>Make use of template to produce shapes.</p>		<p>Use correct stitch to join materials.</p> <p>Add decorative finish using a suitable technique.</p>		<p>Use a variety of stitching techniques to join fabrics.</p> <p>Understand the purpose of and include a seam allowance.</p>	
<p>Subject Domain: Construction</p>		<p>Practice techniques to join and/or strengthen materials eg , gluing and reinforcing card.</p>		<p>Select appropriate techniques to construct products.</p>		<p>Practice practical skills to a reasonable standard to produce products.</p>	
<p>Subject Domain: Mechanics</p>			<p>Explore and use mechanisms in their products, wheels and axles.</p>		<p>Apply understanding of forces to select a suitable mechanism eg levers, winding mechanism, pulleys and gears.</p>		<p>Combine electronics and mechanics to produce original designs.</p> <p>Use cams to change a rotation into a push/pull movement.</p>
<p>Subject Domain: Materials</p>			<p>Demonstrate safe use of a given tool. (saw)</p>		<p>Use suitable cutting and shaping techniques.</p>		<p>Cut with precision and produce a good finish.</p>



			<p>Perform a range of cutting and shaping techniques eg tearing, cutting, folding and curling (Bird boxes)</p> <p>Use a range of joining techniques eg gluing, hinges or combining materials to strengthen.</p>		Choose suitable joining techniques.		Select appropriate tools to cut and shape a particular type of material.
<p>Subject Domain:</p> <p>Electrical Systems</p>					Construct series circuits.	Create circuits using electronics kits that combine a number of parts. (e.g. LEDs, resistors, chips etc.)	
<p>Subject Domain:</p> <p>Historical Inspiration</p>		Investigate historic designs to find their strengths and weaknesses (houses) Weald and Downland Museum	Take an existing design and propose improvements plants Explore the processes used to create products (plant pot)	Know the work of some recognised designers in all areas of study (including pioneers in horticultural techniques to stimulate ideas for designs)	<p>Make improvements to established designs and be able to explain why.</p> <p>Disassemble designs to discover how they work.</p>	Combine designs from several significant designers explaining the selections.	<p>Start with existing designs and invent improved ones.</p> <p>Evaluate the design of products and identify possible further changes to improve its performance.</p>