



## PROGRESSION OF DISCIPLINARY KNOWLEDGE IN DESIGN TECHNOLOGY

### (AMENDED FOR ST MARY'S CATHOLIC PRIMARY SCHOOL)

	Venford		Fernworthy		Burrator	
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Developing, planning and communicating ideas.</b>	<ul style="list-style-type: none"> <li>Draw on their own experience to help generate ideas</li> <li>Suggest ideas and explain what they are going to do</li> <li>Identify a target group for what they intend to design and make</li> <li>Model their ideas in card and paper</li> <li>Develop their design ideas applying findings from their earlier research</li> </ul>	<ul style="list-style-type: none"> <li>Generate ideas by drawing on their own and other people's experiences</li> <li>Develop their design ideas through discussion, observation, drawing and modelling</li> <li>Identify a purpose for what they intend to design and make</li> <li>Identify simple design criteria</li> <li>Make simple drawings and label parts</li> </ul>	<ul style="list-style-type: none"> <li>Generate ideas for an item, considering its purpose and the user/s</li> <li>Identify a purpose and establish criteria for a successful product.</li> <li>Plan the order of their work before starting</li> <li>Explore, develop and communicate design proposals by modelling ideas</li> <li>Make drawings with labels when designing</li> </ul>	<ul style="list-style-type: none"> <li>Generate ideas, considering the purposes for which they are designing</li> <li>Make labelled drawings from different views showing specific features</li> <li>Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail</li> <li>Evaluate products and identify criteria that can be used for their own designs</li> </ul>	<ul style="list-style-type: none"> <li>Generate ideas through brainstorming and identify a purpose for their product</li> <li>Draw up a specification for their design</li> <li>Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making if the first attempts fail</li> <li>Use results of investigations, information sources, including ICT when developing design ideas</li> </ul>	<ul style="list-style-type: none"> <li>Communicate their ideas through detailed labelled drawings</li> <li>Develop a design specification</li> <li>Explore, develop and communicate aspects of their design proposals by modelling their ideas in a variety of ways</li> <li>Plan the order of their work, choosing appropriate materials, tools and techniques</li> </ul>
<b>Working with tools, equipment, materials and components to make quality products (inc-food)</b>	<ul style="list-style-type: none"> <li>Make their design using appropriate techniques</li> <li>With help measure, mark out, cut and shape a range of materials</li> <li>Use tools eg scissors and a hole punch safely</li> <li>Assemble, join and combine materials and components together using a variety of temporary methods e.g. glues or masking tape</li> <li>Select and use appropriate fruit and vegetables, processes and tools</li> <li>Use basic food handling, hygienic practices and personal hygiene</li> <li>Use simple finishing techniques to improve the appearance of their product</li> </ul>	<ul style="list-style-type: none"> <li>Begin to select tools and materials; use vocab' to name and describe them</li> <li>Measure, cut and score with some accuracy</li> <li>Use hand tools safely and appropriately</li> <li>Assemble, join and combine materials in order to make a product</li> <li>Cut, shape and join fabric to make a simple garment. Use basic sewing techniques</li> <li>Follow safe procedures for food safety and hygiene</li> <li>Choose and use appropriate finishing techniques</li> </ul>	<ul style="list-style-type: none"> <li>Select tools and techniques for making their product</li> <li>Measure, mark out, cut, score and assemble components with more accuracy</li> <li>Work safely and accurately with a range of simple tools</li> <li>Think about their ideas as they make progress and be willing change things if this helps them improve their work</li> <li>Measure, tape or pin, cut and join fabric with some accuracy</li> <li>Demonstrate hygienic food preparation and storage</li> <li>Use finishing techniques strengthen and improve the appearance of their product using a range of equipment including ICT</li> </ul>	<ul style="list-style-type: none"> <li>Select appropriate tools and techniques for making their product</li> <li>Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques</li> <li>Join and combine materials and components accurately in temporary and permanent ways</li> <li>Sew using a range of different stitches, weave and knit</li> <li>Measure, tape or pin, cut and join fabric with some accuracy</li> <li>Use simple graphical communication techniques</li> </ul>	<ul style="list-style-type: none"> <li>Select appropriate materials, tools and techniques</li> <li>Measure and mark out accurately</li> <li>Use skills in using different tools and equipment safely and accurately</li> <li>Weigh and measure accurately (time, dry ingredients, liquids)</li> <li>Apply the rules for basic food hygiene and other safe practices e.g. hazards relating to the use of ovens</li> <li>Cut and join with accuracy to ensure a good-quality finish to the product</li> </ul>	<ul style="list-style-type: none"> <li>Select appropriate tools, materials, components and techniques</li> <li>Assemble components make working models</li> <li>Use tools safely and accurately</li> <li>Construct products using permanent joining techniques</li> <li>Make modifications as they go along</li> <li>Pin, sew and stitch materials together create a product</li> <li>Achieve a quality product</li> </ul>
<b>Evaluating processes and products</b>	<ul style="list-style-type: none"> <li>Evaluate their product by discussing how well it works in relation to the purpose</li> <li>Evaluate their products as they are developed, identifying strengths and possible changes they might make</li> <li>Evaluate their product by asking questions about what they have made and how they have gone about it</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate against their design criteria</li> <li>Evaluate their products as they are developed, identifying strengths and possible changes they might make</li> <li>Talk about their ideas, saying what they like and dislike about them</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate their product against original design criteria e.g. <i>how well it meets its intended purpose</i></li> <li>Disassemble and evaluate familiar products</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate their work both during and at the end of the assignment</li> <li>Evaluate their products carrying out appropriate tests</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate a product against the original design specification</li> <li>Evaluate it personally and seek evaluation from others</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate their products, identifying strengths and areas for development, and carrying out appropriate tests</li> <li>Record their evaluations using drawings with labels</li> <li>Evaluate against their original criteria and suggest ways that their product could be improved</li> </ul>

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