



## Progression of Skills in Design & Technology

|  | 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 (including 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 e.g. 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> </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> </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> </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> </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 <i>e.g. hazards relating to the use of ovens</i></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> |

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|  | <ul style="list-style-type: none"> <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>○ 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>○ 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>○ 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>○ Cut and join with accuracy to ensure a good-quality finish to the 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 <i>e.g. 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> |