Progression of skills in Design Technology

	Year 3	Year 4	Year 5	Year 6
Developing, planning and communicating ideas	-Generate ideas for an item considering its purpose and the user -Identify a purpose and establish a criteria for a successful product -Plan the order of their work before starting -Explore, develop and communicate design proposals by modelling ideas -Make drawings with labels when designing	-Generate ideas, considering the purposes for which they were designed -Make labelled drawings from different views showing specific features -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 attempt fails -Evaluate products and identify criteria that can be used for their own designs	-Generate ideas through brainstorming and identify a purpose for their product -Draw up a specification for their design -Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making of the first attempts fail -Use results of investigations, information sources, including ICT when developing design ideas	-Communicate their design ideas through detailed labelled drawings -Develop a design specification -Explore, develop and communicate aspects of their design proposals by modelling their ideas in a variety of ways -Plan the order of their work choosing appropriate materials, tools and techniques
Working with tools, equipment, materials and components to make quality products (including food)	-Select tools and techniques for making their product -Measure, mark, score, cut out and assemble components with more accuracy -Work safely and accurately with a range of simple tools -Think about their ideas as they make progress and be willing to change things if this helps them improve their work -Measure, tape or pin, cut and join fabric with some accuracy -**Demonstrate hygienic food preparation and storage** -Use finishing techniques to strengthen and improve the appearance of their product using a range of equipment including ICT	-Select appropriate tools and techniques for making their product -Measure, mark out, cut and shape a range of materials using appropriate tools, equipment and techniques -Join and combine materials and components accurately in temporary and permanent ways -Sew using a range of different stitches, weave and knit -Measure, tape or pin, cut and join fabric with some accuracy -Use simple graphical communication techniques	-Select appropriate materials, tools and techniques -Measure and mark out accurately -Use skills in using different tools and equipment safely and accurately -Weigh and measure accurately (time, dry ingredients, liquids) -Apply the rules for basic food hygiene and other safe practices e.g. hazards relating to the use of ovens -Cut and join with accuracy to ensure a good quality finish to the product	-Select appropriate tools, materials, components and techniques -Assemble components to make working models -Use tools safely and accurately -Construct products using permanent joining techniques -Make modifications as they go along -Pin, sew and stitch materials together to create a product -Achieve a quality product
Evaluating processes and products	-Evaluate their product against original design criteria e.g. how well it meets its intended purpose -Disassemble and evaluate familiar products	-Evaluate their work both during and at the end of the assignment -Evaluate their products carrying out appropriate tests	-Evaluate their product against an original design specification -Evaluate it personally and seek evaluation from others	-Evaluate their products, identifying strengths and areas for development, and carry out appropriate tests -Record their evaluations using drawings with labels -Evaluate against their original criteria and suggest ways their product can be improved