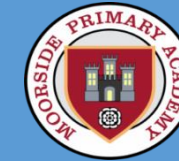




Skills progression – Design Technology



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Developing, planning and communicating ideas.	<ul style="list-style-type: none"> Draw on their own experience to help generate ideas Suggest ideas and explain what they are going to do Identify a target group for what they intend to design and make Model their ideas in card and paper Develop their design ideas applying findings from their earlier research 	<ul style="list-style-type: none"> Generate ideas by drawing on their own and other people's experiences Develop their design ideas through discussion, observation, drawing and modelling Identify a purpose for what they intend to design and make Identify simple design criteria Make simple drawings and label parts 	<ul style="list-style-type: none"> Generate ideas for an item, considering its purpose and the user/s Identify a purpose and establish 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 	<ul style="list-style-type: none"> Generate ideas, considering the purposes for which they are designing 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 attempts fail Evaluate products and identify criteria that can be used for their own designs 	<ul style="list-style-type: none"> Generate ideas through brainstorming and identify a purpose for their product Draw up a specification for their design <ul style="list-style-type: none"> 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 Use results of investigations, information sources, including ICT when developing design ideas 	<ul style="list-style-type: none"> Communicate their 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 (incfood)	<ul style="list-style-type: none"> Make their design using appropriate techniques With help measure, mark out, cut and shape a range of materials Use tools <i>eg scissors and a hole punch</i> safely Assemble, join and combine materials and components together using a variety of temporary methods e.g. glues or masking tape Select and use appropriate fruit and vegetables, processes and tools Use basic food handling, hygienic practices and personal hygiene Use simple finishing techniques to improve the appearance of their product 	<ul style="list-style-type: none"> Begin to select tools and materials; use vocab' to name and describe them Measure, cut and score with some accuracy Use hand tools safely and appropriately Assemble, join and combine materials in order to make a product Cut, shape and join fabric to make a simple garment. Use basic sewing techniques Follow safe procedures for food safety and hygiene Choose and use appropriate finishing techniques 	<ul style="list-style-type: none"> Select tools and techniques for making their product Measure, mark out, cut, score 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 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 strengthen and improve the appearance of their product using a range of equipment including ICT 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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 <i>e.g. hazards relating to the use of ovens</i> Cut and join with accuracy to ensure a good-quality finish to the product 	<ul style="list-style-type: none"> Select appropriate tools, materials, components and techniques Assemble components 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 create a product Achieve a quality product
Evaluating processes and products	<ul style="list-style-type: none"> Evaluate their product by discussing how well it works in relation to the purpose Evaluate their products as they are developed, identifying strengths and possible changes they might make Evaluate their product by asking questions about what they have made and how they have gone about it 	<ul style="list-style-type: none"> Evaluate against their design criteria Evaluate their products as they are developed, identifying strengths and possible changes they might make Talk about their ideas, saying what they like and dislike about them 	<ul style="list-style-type: none"> Evaluate their product against original design criteria <i>e.g. how well it meets its intended purpose</i> Disassemble and evaluate familiar products 	<ul style="list-style-type: none"> Evaluate their work both during and at the end of the assignment Evaluate their products carrying out appropriate tests 	<ul style="list-style-type: none"> Evaluate a product against the original design specification Evaluate it personally and seek evaluation from others 	<ul style="list-style-type: none"> Evaluate their products, identifying strengths and areas for development, and carrying out appropriate tests Record their evaluations using drawings with labels Evaluate against their original criteria and suggest ways that their product could be improved
Cooking and nutrition	<ul style="list-style-type: none"> Cut food safely Describe the texture of food Wash their hands and make sure they are clean Think of interesting ways of decorating food they have made 	<ul style="list-style-type: none"> Describe the properties of the ingredients they are using Explain what it means to be hygienic 	<ul style="list-style-type: none"> Choose the right ingredients for a product Use equipment safely Grow plants such as herbs and cress from seed with the intention of using them for their food product 	<ul style="list-style-type: none"> Know what to do to be hygienic and safe Thinks carefully about presenting a product in an interesting way 	<ul style="list-style-type: none"> Describe what they do to be both hygienic and safe Present their product well 	<ul style="list-style-type: none"> Explain how their product should be stored with reasons Set out to grow their own products with a view of making something, taking account of time required to grow different foods
Textiles	<ul style="list-style-type: none"> Describe how different textiles feel 	<ul style="list-style-type: none"> Measure textiles Join textiles together to make something 	<ul style="list-style-type: none"> Join textiles of different types in different ways 	<ul style="list-style-type: none"> Thinks about what the user would want when choosing textiles 	<ul style="list-style-type: none"> Think what the user would want when choosing textiles 	<ul style="list-style-type: none"> Thought about how their product could be sold

	<ul style="list-style-type: none"> Make a product from textiles by gluing 	<ul style="list-style-type: none"> Cut textiles Explain why they have chosen certain ones 	<ul style="list-style-type: none"> Choose textiles both for their appearance and also qualities 	<ul style="list-style-type: none"> Thinks about how to make a product stronger Explain how to join things in a different way 	<ul style="list-style-type: none"> Made their product attractive and strong Makes up a prototype first Use a range of joining techniques 	<ul style="list-style-type: none"> Give consideration to what would improve their product even more
Mechanisms Electrical and mechanical components (3-6)	<ul style="list-style-type: none"> Make a product that moves Cut materials using scissors Describe the materials using different words Say why they have chosen moving parts 	<ul style="list-style-type: none"> Join materials together as part of a moving product Add some kind of design to their product 	<ul style="list-style-type: none"> Select the most appropriate tools and techniques to use for a given task Make a product which uses both electrical and mechanical components Use a simple circuit Use a number of components 	<ul style="list-style-type: none"> Add things to their circuit Confident about trying out new and different ideas 	<ul style="list-style-type: none"> Can incorporate a switch into their product Can refine their product after testing it Can incorporate hydraulics and pneumatics 	<ul style="list-style-type: none"> Use different kinds of circuits in their product Think of ways in which adding a circuit would improve their product
Use of materials Stiff and flexible sheet materials (3-6)	<ul style="list-style-type: none"> Make a structure/ model using different materials Make their model stronger 	<ul style="list-style-type: none"> Measure materials to use in a model or structure Join materials in different ways Use joining, folding or rolling to make things stronger 	<ul style="list-style-type: none"> Use the most appropriate materials Work accurately to make cuts and holes Join materials 	<ul style="list-style-type: none"> Measure carefully so as to make sure they have not made mistakes Have attempted to make their product strong 	<ul style="list-style-type: none"> Their measurements are accurate enough to ensure that everything is precise Ensured that their product is strong and fit for purpose 	<ul style="list-style-type: none"> Justify why they have selected specific materials Ensured that their work is precise and accurate Hide joints so as to improve the look of their product
Construction Mouldable materials (3-6)	<ul style="list-style-type: none"> Talk to others about how they want to construct their product Select appropriate resources and tools for their building project Make simple plans before making 	<ul style="list-style-type: none"> Make sensible choices as to which material to use for their constructions Develop their own ideas from an initial starting point Incorporate some type of movement into models Consider how to improve their constructions 	<ul style="list-style-type: none"> Select the most appropriate materials Use a range of techniques to shape and mould Use finishing techniques 	<ul style="list-style-type: none"> Use a range of advanced techniques to shape and mould Use finishing techniques showing an awareness of audience 	<ul style="list-style-type: none"> Are motivated enough to refine and further improve their product using mouldable materials 	<ul style="list-style-type: none"> Justify why the chosen material was the best for the task Justify in relation to the audience