



Progression of Skills in Design and technology

	Design	Make	Evaluating / Technical Knowledge	Cooking and Nutrition
Nursery	<ul style="list-style-type: none"> • Develop own ideas & decide which materials to use to express them 	<ul style="list-style-type: none"> • Use various construction materials, e.g. joining pieces, stacking vertically and horizontally, balancing, making enclosures and creating spaces • Use available resources to create props or creates imaginary ones to support play 	<ul style="list-style-type: none"> • Notice what other children & adults do, mirroring what is observed, adding variations & then doing it spontaneously • Develop new skills & techniques • Use tools for a purpose 	<ul style="list-style-type: none"> • Talk about the differences between changes they notice • Make healthy choices
Reception	<ul style="list-style-type: none"> • Develop own ideas through experimentation with diverse materials to express & communicate their discoveries & understanding • Create collaboratively sharing ideas, resources & skills 	<ul style="list-style-type: none"> • Use increasing knowledge & understanding of tools & materials to explore their interests & enquiries & develop their thinking • Create representations both imaginary & real-life ideas, events, people & objects 	<ul style="list-style-type: none"> • Express & communicates working theories, feelings & understandings • Responds imaginatively to art works & objects • Return to & build on previous learning, refining ideas & developing their ability to represent them • Discuss problems & how they might be solved • Use different techniques for joining materials • Use tools independently, with care & precision 	<ul style="list-style-type: none"> • Look closely at similarities, differences, patterns & change • Know & talk about the different factors that support their overall health & well-being

<p style="text-align: center;">Year 1</p>	<p>Pupils will draw in their own experience to help generate ideas.</p> <p>Pupils will suggest ideas and explain what they are going to do.</p> <p>Pupils will identify a target group for what they are going to design and make.</p> <p>Pupils will model their ideas in card and paper.</p> <p>Pupils will develop their design ideas applying findings from their earlier research.</p>	<p>Pupils will make their design using appropriate techniques.</p> <p>Pupils will, with help, to measure, mark out, cut and shape a range of materials.</p> <p>Pupils will use tools e.g. scissors and a hole punch safely.</p> <p>Pupils will assemble, join and combine materials and components together using a variety of temporary methods e.g. glues or masking tape.</p> <p>Pupils will select and use appropriately fruit and vegetables, processes and tools.</p> <p>Pupils will use simple finishing techniques to improve the appearance of their product.</p>	<p>Pupils will evaluate their product by discussing how well it works in relation to purpose.</p> <p>Pupils will evaluate their products as they are developed, identifying strengths and possible changes they might make.</p> <p>Pupils will evaluate their product by asking questions about what they have made and how they have gone about it.</p>	<p>Pupils will begin to understand that all food comes from plants and animals.</p> <p>Pupils will know how to name and sort foods into five food groups in the Eatwell Plate.</p> <p>Pupils will know basic food handling, hygienic practices and personal hygiene.</p>
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<p style="text-align: center;">Year 2</p>	<p>Pupils will generate ideas by drawing on their own and other people's experiences.</p> <p>Pupils will develop their design ideas through discussion, observation, drawing and modelling.</p> <p>Pupils will identify a purpose for what they intend to design and make.</p> <p>Pupils will identify simple design criteria to make simple drawings and label parts.</p>	<p>Pupils will begin to select tools and materials; use vocab to name and describe them.</p> <p>Pupils will measure, cut and score with some accuracy.</p> <p>Pupils will use hand tools safely and appropriately.</p> <p>Pupils will assemble, join and combine materials in order to make a product.</p> <p>Pupils will cut, shape and join fabric to make a simple garment. Use basic sewing techniques.</p> <p>Pupils will choose and use appropriate finishing techniques.</p>	<p>Pupils will evaluate against their design criteria.</p> <p>Pupils will evaluate their products as they are developed, identify strengths and possible changes they might make.</p> <p>Pupils will talk about their ideas saying what they like and dislike about them.</p>	<p>Pupils will begin to identify where food groups come from (animals or plants).</p> <p>Pupils will know that food has to be farmed, grown elsewhere (e.g. home) or caught.</p> <p>Pupils will know that everyone should eat at least five portions of fruit and vegetables every day.</p> <p>Pupils will know how to prepare simple dishes safely and hygienically, without using a heat source.</p> <p>Pupils will know how to use techniques such as cutting, peeling and grating.</p>
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<p style="text-align: center;">Year 3</p>	<p>Pupils will generate ideas for an item, considering its purpose and the user/s.</p> <p>Pupils will identify a purpose and establish criteria for a successful product.</p> <p>Pupils will plan the order of their work before starting.</p> <p>Pupils will explore, develop and communicate design proposals by modelling ideas.</p> <p>Pupils will make drawings with labels when designing.</p>	<p>Pupils will select tools and techniques for making their product.</p> <p>Pupils will measure, mark out, cut, score and assemble components with more accuracy.</p> <p>Pupils will work safely and accurately with a range of simple tools.</p> <p>Pupils will think about their ideas as they make progress and be willing to change if this helps them to improve their work.</p> <p>Pupils will measure, tape or pin, cut and join fabric with some accuracy.</p> <p>Pupils will use finishing techniques to strengthen and improve the appearance of their product using a range of equipment including ICT.</p>	<p>Pupils will evaluate their product against original design criteria, e.g. how well it meets its intended purpose.</p> <p>Pupils will disassemble and evaluate familiar products.</p>	<p>Pupils will demonstrate hygienic food preparation and storage.</p> <p>Pupils will know that a healthy diet is made up from a variety and balance of different food and drink, as depicted in the Eatwell Plate.</p>
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<p style="text-align: center;">Year 4</p>	<p>Pupils will generate ideas, considering the purposes for which they are designing.</p> <p>Pupils will make labelled drawings from different views showing specific features.</p> <p>Pupils will 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.</p> <p>Pupils will evaluate products and identify criteria that can be used for their own designs.</p>	<p>Pupils will select appropriate tools and techniques for making their product.</p> <p>Pupils will measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques.</p> <p>Pupils will join and combine materials and components accurately in temporary and permanent ways.</p> <p>Pupils will sew using a range of different stitches, to weave and knit.</p> <p>Pupils will measure, tape or pin, cut and join fabric with some accuracy.</p> <p>Pupils will use simple graphical communication techniques.</p>	<p>Pupils will evaluate their work both during and at the end of the assignment.</p> <p>Pupils will evaluate their products carrying out appropriate tests.</p> <p>Pupils will know when and where products were designed and made.</p> <p>Pupils will know whether products can be recycled or reused.</p> <p>Pupils will begin to look at inventors and their work.</p>	<p>Pupils will now that to be active and healthy, food and drink are needed to provide energy for the body.</p>
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<p style="text-align: center;">Year 5</p>	<p>Pupils will generate ideas through brainstorming and identify a purpose for their product.</p> <p>Pupils will draw up a specification for their design.</p> <p>Pupils will 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.</p> <p>Pupils will use results of investigations, information sources, including ICT when developing design ideas.</p> <p>Pupils model their ideas using prototype and patter pieces.</p>	<p>Pupils will use a wider range of appropriate material, tools and techniques e.g. kits, textiles, food ingredients, mechanical.</p> <p>Pupils will measure and mark out accurately.</p> <p>Pupils will use skills in using different tools and equipment safely and accurately.</p> <p>Pupils will weigh and measure accurately (time, dry ingredients, liquids).</p> <p>Pupils will cut and join with accuracy to ensure a good-quality finish to the product.</p> <p>Pupils will generate innovative ideas.</p>	<p>To evaluate a product against the original design specification.</p> <p>To evaluate it personally and seek evaluation from others.</p> <p>Investigate how much products cost to make, how sustainable and what impact they have beyond their intended use.</p> <p>Evaluate how learning from science and Mathematics can help design and make products that work.</p>	<p>To apply the rules for basic food hygiene and other safe practices, e.g. hazards relating to the use of ovens.</p> <p>To have a basic understanding of how food is grown, reared or caught in the UK.</p> <p>To know how to prepare and cook a range of predominantly savoury dishes safely and hygienically, where appropriate, the use of a heat source.</p> <p>Use a range of techniques when such as peeling and chopping.</p>
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<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Year 6</p>	<p>To communicate their ideas through detailed labelled drawings to develop a design specification.</p> <p>To explore, develop and communicate aspects of their design proposals by modelling their ideas in a variety of ways.</p> <p>To plan the order of their work, choosing appropriate materials, tools and techniques.</p> <p>To carry out research, using surveys, interviews, questionnaires and web-based resources.</p> <p>To identify the needs of individuals and groups.</p>	<p>To select tools, materials, components and techniques appropriate to the task.</p> <p>To assemble components to make working models.</p> <p>Follow procedures for safety and hygiene.</p> <p>To construct products using permanent joining techniques.</p> <p>To make modifications as they go along.</p> <p>To pin, sew and stitch materials together to make a product.</p> <p>Demonstrate resourcefulness when tackling practical problems.</p>	<p>To evaluate their products, identifying strengths and areas for development, and carrying out appropriate tests.</p> <p>To record their evaluations using drawings with labels.</p> <p>To critically evaluate the quality of their design, manufacture and fitness for purpose of their products as they design and make.</p> <p>To show an awareness of how much products cost to make, how innovative and sustainable they are.</p> <p>To use science and mathematical knowledge to help plan and make products.</p> <p>To know that materials have both functional properties and aesthetic properties.</p> <p>To know than mechanical and electrical systems have an input, process and output.</p>	<p>Understand that different food and drink contain different substances – nutrients, water and fibre – that are needed for health.</p> <p>To know that seasons may affect the food available.</p> <p>To know that food is processed into ingredients that can be eaten or used in cooking.</p> <p>Use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and bakery.</p>
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