

# D&T PROGRESSION OF SKILLS 2023 - 2024

YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
<b>DESIGN</b>					
<p>I can create a simple design for my product</p> <p>I can use pictures and words to describe what I want to make</p>	<p>I can design useful products for other users based on a design brief</p> <p>I can generate, develop and model my ideas</p>	<p>I can create designs using annotated sketches, cross-sectional diagrams and simple computer programmes</p> <p>I can use my knowledge of existing products to design my own functional product</p> <p>I can generate, develop, model and communicate my ideas</p>	<p>I can use my knowledge of existing products to design a functional product for a particular purpose</p> <p>I can create designs using exploded diagrams</p>	<p>I can produce step by step plans to guide my making, demonstrating that I can apply my knowledge of different materials, tools and technique</p>	<p>I can generate, develop, model and communicate my ideas through discussion, annotated sketches, cross-sectional and exploded diagrams.</p> <p>I can confidently plan a series of healthy meals based on the principles of a healthy and varied diet</p>
<b>MAKE</b>					
<p>I can use a range of simple tools to cut, join and combine materials and components safely.</p> <p>I can build structures, exploring how they can be made stronger, stiffer and more stable</p> <p>I can select from and use a range of tools and equipment to perform practical tasks e.g. cutting, shaping, joining and finishing</p> <p>I can use simple tools with help to prepare food safely</p>	<p>I can select materials based on my knowledge of their properties</p> <p>I can safely cut and shape materials using tools</p> <p>I can safely measure, mark out, cut and shape materials and components using a range of tools</p> <p>I can use a wider range of cookery techniques to prepare food safely</p>	<p>I can safely measure, mark out, cut, assemble and join with accuracy</p> <p>I can make suitable choices from a wider range of tools and unfamiliar materials and plan out the main stages of using them</p>	<p>I can use techniques which require accuracy to cut, shape, join and finish my work.</p> <p>I can safely cut and shape materials using tools</p>	<p>I can make careful and precise measurements to ensure that joins are in the exactly the right place</p> <p>I can use a range of tools to cut, join and combine materials and components safely</p> <p>I can build complex 3D structures and apply my knowledge of strengthening techniques to make 3D structures stronger or more stable</p>	<p>I can apply my knowledge of materials and techniques to refine and rework my product to improve its functional properties and aesthetic qualities</p> <p>I can use techniques which require more accuracy to cut, shape, join and finish my work</p> <p>I can research, plan and prepare and cook a dish, applying my knowledge of ingredients and my technical skills</p>
<b>EVALUATE</b>					
<p>I can ask simple questions about existing products and those that I have made.</p> <p>I can talk about what I eat at home and begin to discuss what healthy foods are</p>	<p>I can evaluate and assess existing products and those that I have made using a design criteria</p>	<p>I can investigate and analyse existing products and those I have made, considering a wide range of factors.</p> <p>I can evaluate my ideas and products against my own design criteria and consider the views of others to improve my work</p>	<p>I can consider how existing products and my own finished products might be improved and how well they meet the needs of the intended user</p>	<p>I can make detailed evaluations about my own product</p>	<p>I can apply my knowledge of materials and techniques to refine and rework my product to improve its functional properties and aesthetic qualities</p> <p>I can evaluate a meal I have designed and prepared</p>
<b>TECHNICAL KNOWLEDGE</b>					
<p>I can use wheels and axles in a product</p> <p>I can say where some food comes from and give examples of food that is grown</p>	<p>I can investigate different techniques for stiffening materials</p> <p>I can explore different methods of enabling structures to remain stable</p> <p>I can choose tools I would like to use and select materials based on my knowledge of their properties</p> <p>I understand the need for a variety of food in a diet</p> <p>I understand that all food has to be farmed, grown or caught</p>	<p>I can strengthen frames with diagonal struts</p> <p>I can understand how mechanical systems such as levers, linkages or pneumatic systems create movement.</p> <p>I can select from and use a range of materials according to their characteristics</p>	<p>I can apply my knowledge of different materials, tools and techniques</p> <p>I can use my knowledge of techniques and the functional and aesthetic qualities of a wide range of materials to plan how to use them</p> <p>I can understand and use electrical systems in my products</p> <p>I can apply techniques I have learnt to strengthen structures and explore my own ideas</p>	<p>I can apply my knowledge of strengthening techniques to make 3D structures stronger</p> <p>I can use techniques that require accuracy to cut, shape, join and finish my work</p> <p>I can understand how to use more complex mechanical systems</p> <p>I can understand how to use more complex electrical systems.</p>	<p>I can understand and use electrical systems in their products</p> <p>I can use my technical knowledge and accurate skills to problem solve during the making process</p> <p>I can use information on food labels to inform choice</p>