





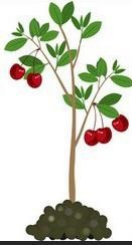


## DT progression

	<u>Designing</u>	<u>Making</u>	<u>Technical Knowledge</u>	<u>Evaluate</u>	<u>Cooking and Nutrition</u>
EYFS 	<ul style="list-style-type: none"> <li>Consider their final outcome before making.</li> <li>Choose own resources and materials</li> <li>Begin to use the language of designing and making, e.g. join, build and shape.</li> <li>Learning about planning and adapting initial ideas to make them better.</li> </ul>	<ul style="list-style-type: none"> <li><b>PRACTICAL TASKS</b></li> <li>To know the names of tools</li> <li>Cut shapes using scissors and other modelling tools.</li> <li>Use tools such as scissors, staplers, clay tools, split pins and shape cutters competently and appropriately.</li> <li>Build a construction/ sculpture using a variety of objects from observation or imagination e.g. recycled, natural and manmade materials.</li> </ul>	<ul style="list-style-type: none"> <li>To learn how to use a range of tools, e.g. scissors, hole punch, stapler, woodworking tools, rolling pins, pastry cutters</li> <li>Learn how everyday objects work by dismantling things</li> </ul>	<p><b>EXISTING PRODUCTS</b></p> <ul style="list-style-type: none"> <li>Play with and explore a range of existing products</li> <li>Explore/Talk about how they work</li> <li>To share their creations</li> <li>Begin to talk about changes made during the making process, e.g. making a decision to use a different joining method</li> </ul>	<ul style="list-style-type: none"> <li>To know how to work safely and hygienically</li> <li>To use non- statutory measures (spoons, cups)</li> <li>To use some cooking techniques (spreading, cutting) – Sandwiches</li> </ul>
Year 1 	<ul style="list-style-type: none"> <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>Draw simple designs for products</li> </ul>	<ul style="list-style-type: none"> <li>Select tools and use them with control to perform tasks e.g. cutting or joining</li> <li>Apply the language of measures/comparisons when making</li> </ul>	<ul style="list-style-type: none"> <li>Explore how materials can be made stiffer and stronger (layering, shaping)</li> <li>Explore how shape, height and materials can change the stability of structures (e.g. bridge)</li> <li>Explore how to make wheels and axles</li> </ul>	<ul style="list-style-type: none"> <li>Talk about the materials used</li> <li>Suggest what the product is for (purpose) and how well it works (function)</li> <li>Can describe how their product works (function), what it is made of (material) and what it is used for (purpose)</li> </ul>	<ul style="list-style-type: none"> <li>Use basic food handling, hygienic practices and personal hygiene</li> <li>Cut, grate, spread and hand peel ingredients safely and hygienically.</li> <li>Say where food comes from and know which food is grown</li> </ul>
Year 2 	<ul style="list-style-type: none"> <li><b>Make simple drawings and label parts</b></li> <li>Identify a purpose for what they intend to design and make</li> <li>Collaboratively identify simple design criteria</li> </ul>	<p><b>PRACTICAL TASKS</b></p> <ul style="list-style-type: none"> <li>Select tools and describe why they are using them</li> <li>Cut, join or shape in different ways to make a product successfully</li> </ul>	<ul style="list-style-type: none"> <li>Explore how materials can be made stiffer and stronger</li> <li><b>Explores ways to make pictures move in different directions (sliders, wheels, tabs, flaps)</b></li> </ul>	<ul style="list-style-type: none"> <li><b>Play with and explore a range of existing products:</b></li> <li>Notice and describe why some materials are better suited for products than others</li> <li>Evaluate their ideas against design criteria, thinking about what is working well and what might need to be done differently</li> </ul>	<ul style="list-style-type: none"> <li>Follow safe procedures for food safety and hygiene</li> <li>Measure or weigh using measuring cups or electronic scales.</li> <li>Understand where food comes from.</li> <li>Chop, slice and peel food with a variety of equipment</li> </ul>

<p>Year 3</p> 	<ul style="list-style-type: none"> <li>Identify a purpose and establish criteria for a successful product.</li> <li>Make a technical drawing with labels when designing</li> </ul>	<p><b>PRACTICAL TASKS</b></p> <ul style="list-style-type: none"> <li>Select tools and techniques specific to the purpose of making their product</li> <li>Measure, mark out, cut, score and assemble components with more accuracy</li> </ul>	<ul style="list-style-type: none"> <li>Recognise the role a base play in keeping a structure stable</li> <li>Apply understanding of how squares, triangle and arches to help strengthen or reinforce taller structures.</li> </ul>	<p><b>EXISTING PRODUCTS</b></p> <ul style="list-style-type: none"> <li>Know what makes the product 'good/fit for purpose' and think about how that could help with their own ideas</li> </ul> <p><b>THEIR IDEAS AND PRODUCTS</b></p> <ul style="list-style-type: none"> <li>Identify what is going well and could be improved against the design criteria</li> </ul>	
<p>Year 4</p> 	<ul style="list-style-type: none"> <li>Make labelled technical drawing from different views showing specific features</li> <li>Plan the methods that they will be using, trial them and then evaluate their effectiveness e.g., types of joins</li> <li>Use Exploded diagrams when designing</li> </ul>	<p><b>PRACTICAL TASKS</b></p> <ul style="list-style-type: none"> <li>Measure, mark out, cut, join shape a range of materials</li> <li>Select tools needed to cut harder materials.</li> <li>Join with a variety of materials and techniques</li> </ul>	<ul style="list-style-type: none"> <li>Understand how a structure with moving parts can be strengthened and stiffened by use of a base, shape reinforcements and materials choice (e.g. chassis base, for a car)</li> <li>Understand and use electrical systems in their product [simple series circuits and motors]</li> </ul>	<p><b>EXISTING PRODUCTS</b></p> <ul style="list-style-type: none"> <li>Make suggestions about the types of products they could explore linked to the problem they want to solve</li> <li>Disassemble products to understand how they work or fit together</li> </ul> <p><b>THEIR IDEAS AND PRODUCTS</b></p> <ul style="list-style-type: none"> <li>Evaluate their ideas and products against the design criteria.</li> </ul>	<ul style="list-style-type: none"> <li>Follow a recipe with several stages and processes</li> <li>Understand seasonality and the advantages of eating seasonally</li> <li>Prepare ingredients hygienically using appropriate utensils.</li> <li>Measure ingredients to the nearest gram accurately</li> </ul>
<p>Year 5</p> 	<ul style="list-style-type: none"> <li>Identify a purpose for their product</li> <li>Draw up a specification for their design</li> <li>Identify great designers and their work and use research of designers to influence work</li> <li>Create prototypes to show ideas</li> </ul>	<p><b>PRACTICAL TASKS</b></p> <ul style="list-style-type: none"> <li>Select tools needed to cut harder materials.</li> <li>Use a range of measurements</li> <li>Use tools to hold materials in place</li> </ul>	<ul style="list-style-type: none"> <li>Understand how tall structures can be stiffened and strengthened by use of a base, shapes and materials choices</li> <li>To combine mechanisms – pulleys and cams to create movement</li> </ul>	<p><b>EXISTING PRODUCTS</b></p> <ul style="list-style-type: none"> <li>Disassemble products to understand and compare which parts make it function and which parts make it look appealing.</li> </ul> <p><b>THEIR IDEAS AND PRODUCTS</b></p> <ul style="list-style-type: none"> <li>Evaluate their ideas and products against the design criteria.</li> <li>Becomes more able to ask questions to themselves to self-reflect and help others reflect</li> </ul>	<ul style="list-style-type: none"> <li>Follow a recipe with several stages and processes</li> <li>Understand seasonality and the advantages of eating seasonally</li> <li>Use the information of food labels</li> <li>Apply the rules for basic food hygiene and other safe practices e.g. hazards relating to the use of ovens</li> </ul>

<p>Year 6</p> 	<ul style="list-style-type: none"> <li>• Test aspects of the design by modelling in a variety of ways</li> <li>• Identify great designers and their work and use research of designers to influence work</li> </ul>	<p><b>PRACTICAL TASKS</b></p> <ul style="list-style-type: none"> <li>• Select tools needed to cut and join</li> </ul>	<ul style="list-style-type: none"> <li>• Build on understanding of a base, use of shape and materials to stiffen and strengthen and reinforce</li> <li>• Understand and use mechanical systems in their products - gears, pulleys, cams, levers and linkages</li> <li>• Understand and use electrical systems in their product that employ a number of components (different types of circuits, switches and bulbs)</li> </ul>	<ul style="list-style-type: none"> <li>• Use simple market research to help suggest the types of products to investigate and analyse</li> <li>• Research products and their functionality</li> <li>• Evaluate against their design criteria and notice when it might be helpful to alter the criteria for a better outcome</li> <li>• Reviews 'how things are going' and change tack if necessary</li> <li>• Change plans when they have had a better idea</li> </ul>	<ul style="list-style-type: none"> <li>• Follow a recipe with several stages and processes and restrictive ingredients available</li> <li>• Understand seasonality and the advantages of eating seasonally</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>
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