

Year 6			
Concept	Autumn	Spring	Summer
	<p><b>Food</b> Healthy Pasta</p>	<p><b>Textiles</b> phone pouch</p>	<p><b>Mechanics and Electronics</b> – Fun at the fair</p>
<b><u>Famous inventor/ designer.</u></b>	Nigella Lawson	Althea McNish	Nikola Tesla
<b><u>Design</u></b>	<p>Make products through stages of prototypes, making continual refinements. Design criteria to inform the design of a functional and appealing product that is fit for purpose and the intended user. Ensure design has annotated diagram or a cross sectional/ exploded diagram. Design with the user in mind, motivated by the service a product will offer (rather than simply for profit). Ensure products have a high quality finish, using art skills where appropriate.</p>		
<b><u>Make</u></b>	<p>Demonstrate a range of baking and cooking techniques Create and refine recipes, including ingredients, methods, cooking times and temperatures.</p>	<p>Create objects (such as a cushion) that employ a seam allowance. Join textiles with a combination of stitching techniques (such as back stitch for seams and running stitch to attach decoration). Use the qualities of materials to create suitable visual and tactile effects in the decoration of textiles (such as a soft decoration for comfort on a cushion)</p>	<p>Electricals and electronics: Create circuits using electronics kits that employ a number of components (such as LEDs, resistors, transistors and chips).  Mechanics: Convert rotary motion to linear using cams. Use innovative combinations of electronics (or computing) and mechanics in product designs.</p>
	<p><b><u>Materials</u></b> Cut materials with precision and refine the finish with appropriate tools (such as sanding wood after cutting or a more precise scissor cut after roughly cutting out a shape).  <ul style="list-style-type: none"> <li>Show an understanding of the qualities of materials to choose appropriate tools to cut and shape (such as the nature of fabric may require sharper scissors than would be used to cut paper).</li> </ul>                     Children will be using precise measurements and cutting using appropriate techniques.</p>		

<b>Evaluate</b>	<p>Evaluate the finished product and the design process. To evaluate their product against the design criteria. . Children to take ideas from other designs and apply them to their own work.  </p> <p>Identify some of the great designers in all of the areas of study (including pioneers in horticultural techniques) to generate ideas for designs.</p> <p>Improve upon existing designs, giving reasons for choices.</p> <p>Disassemble products to understand how they work.</p>	
<b>Technical knowledge</b>	<p>Understand seasonality and know how food is grown, reared, caught and processed. To have an understanding about allergies and intolerances.</p>	<p>To use a seam allowance. To make a proto type.</p> <p>To name mechanical systems used in fair rides. To make an electrical circuit.</p>