

Pupils not meeting the minimum expected requirements	<h2 style="margin: 0;">Expected requirements Milestone 3</h2> <h3 style="margin: 0;">(Expected standard YEAR 5 and YEAR 6)</h3>	Pupils exceeding the minimum expected requirements							
	<p><i>To master practical skills</i></p> <p><i>Food:</i> Understand the importance of correct storage and handling of ingredients. Measure accurately and calculate ratios of ingredients to scale up or down from a recipe. Demonstrate a range of baking and cooking techniques. Create and refine recipes, including ingredients, methods, cooking times and temperatures.</p> <p><i>Materials:</i> Cut materials with precision and refine the finish with appropriate tools. Show an understanding of the qualities of materials to choose appropriate tools to cut and shape.</p> <p><i>Textiles:</i> Create objects (such as a cushion) that employ a seam allowance. Join textiles with a combination of stitching techniques. Use the qualities of materials to create suitable visual and tactile effects in the decoration of textiles.</p> <p><i>Electricals and electronics:</i> Create circuits using electronics kits that employ a number of components (such as LEDs, resistors, transistors and chips).</p> <p><i>Computing:</i> Write code to control and monitor models or products.</p> <p><i>Construction:</i> Develop a range of practical skills to create products (such as cutting, drilling and screwing, nailing, gluing, filing and sanding).</p> <p><i>Mechanics:</i> Convert rotary motion to linear using cams. Use innovative combinations of electronics (or computing) and mechanics in product designs.</p> <p><i>To design, make, evaluate and improve</i></p> <table border="1" data-bbox="283 1024 1766 1203"> <tr> <td data-bbox="283 1024 598 1203">Design with the user in mind, motivated by the service a product will offer.</td> <td data-bbox="598 1024 957 1203">Make products through stages of prototypes, making continual refinements.</td> <td data-bbox="957 1024 1333 1203">Ensure products have a high quality finish, using art skills where appropriate.</td> <td data-bbox="1333 1024 1766 1203">Use prototypes, cross-sectional diagrams and computer aided designs to represent designs.</td> </tr> </table> <p><i>To take inspiration from design throughout history</i></p> <table border="1" data-bbox="283 1239 1766 1417"> <tr> <td data-bbox="283 1239 808 1417">Combine elements of design from a range of inspirational designers throughout history, giving reasons for choices.</td> <td data-bbox="808 1239 1352 1417">Create innovative designs that improve upon existing products. Create innovative designs that improve upon existing products.</td> <td data-bbox="1352 1239 1766 1417">Evaluate the design of products so as to suggest improvements to the user experience.</td> </tr> </table>	Design with the user in mind, motivated by the service a product will offer.	Make products through stages of prototypes, making continual refinements.	Ensure products have a high quality finish, using art skills where appropriate.	Use prototypes, cross-sectional diagrams and computer aided designs to represent designs.	Combine elements of design from a range of inspirational designers throughout history, giving reasons for choices.	Create innovative designs that improve upon existing products. Create innovative designs that improve upon existing products.	Evaluate the design of products so as to suggest improvements to the user experience.	
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