



**Year 3 Assessment and Skills:**

<p><b>Structures</b></p> <ul style="list-style-type: none"> <li>-Measure and mark out to the nearest centimetre.</li> <li>-Demonstrate a range of joining techniques.</li> <li>-Use hinges and combine materials to strengthen.</li> <li>-Make a range of cuts and holes. Measure, mark out, cut, score and assemble components with more accuracy. Start to work safely and accurately with a range of simple tools.</li> <li>-Choose a range of techniques to construct or repair products.</li> <li>-Explore abstract shape and space.</li> <li>-Explore how shapes and negative (empty spaces) can be represented by 3d forms.</li> <li>-Manipulate a range of materials, use a range of way to join structures.</li> </ul>	<p><b>Food</b></p> <ul style="list-style-type: none"> <li>-Measure and cook a variety of ingredients.</li> <li>-Use a range of equipment (scales, jugs, spoons etc)</li> <li>-Begin to understand how to use a range of techniques such as chopping, slicing, kneading and baking.</li> <li>-Start to understand that a healthy diet is made up from a variety and balance of different food and drink.</li> </ul>
<p><b>Mechanisms</b></p> <ul style="list-style-type: none"> <li>-Create a product using winding mechanisms.</li> <li>-Start to understand that mechanical systems create movement.</li> </ul>	<p><b>Computing</b></p> <ul style="list-style-type: none"> <li>-Control and monitor models using software designed for this purpose.</li> </ul>

**Year 4 Assessment and Skills:**

<p><b>Mechanisms</b></p> <ul style="list-style-type: none"> <li>-Choose appropriate mechanisms for a product.</li> <li>-Know how mechanical systems create movement.</li> </ul>	<p><b>Electronics</b></p> <ul style="list-style-type: none"> <li>-Create circuits.</li> <li>-Understand how more complex electrical circuits and components can be used to create functional products</li> </ul>
<p><b>Textiles</b></p> <ul style="list-style-type: none"> <li>-Understand the need for a seam allowance and create an object with one.</li> <li>-Select appropriate techniques to decorate textiles.</li> <li>-Join textiles using running stitch. Start to measure, tape or pin, cut and join fabric with some accuracy</li> <li>-Use the qualities of materials to create suitable and visual and tactile effects in the decoration of textiles.</li> </ul>	<p><b>Food</b></p> <p>Select appropriate utensils. Follow a recipe.</p> <p>Understand how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source.</p> <p>Know that a healthy diet is made up from a variety and balance of different food and drink. Know that to be active and healthy, food and drink are needed to provide energy for the body.</p>



**Year 5 Assessment and Skills:**

<p><b>Food</b></p> <ul style="list-style-type: none"> <li>-Begin to understand that different food and drink contain different substances – nutrients, water and fibre – that are needed for health.</li> <li>-Understand the importance of correct storage and handling of ingredients including micro-organisms.</li> <li>-Demonstrate a range of baking and cooking techniques, using where appropriate, a heat source.</li> <li>-Begin to understand that seasons may affect the food available.</li> </ul>	<p><b>Mechanisms</b></p> <ul style="list-style-type: none"> <li>-Understand how mechanical systems such as cams or pulleys or gears create movement.</li> <li>-Convert rotary motion to linear eg/make a moving toy using a cam.</li> </ul>
<p><b>Structures</b></p> <ul style="list-style-type: none"> <li>-Cut materials accurately and refine the finish with appropriate tools eg/sanding wood or using a more precise scissor cut after using a rough one.</li> <li>-Measure and mark out materials to the nearest millimetre.</li> <li>Understand how to reinforce and strengthen a 3d framework.</li> <li>-Use a range of practical skills to independently create products eg/ cutting, drilling, screwing, nailing, gluing, filling and sanding.</li> </ul>	<p><b>Textiles</b></p> <ul style="list-style-type: none"> <li>-Join materials with a combination of stitching techniques such as back stitch for seams and running stitch to attach decoration.</li> <li>-With confidence, pin, sew and stitch materials together to create a product.</li> </ul>

**Year 6 Assessment and Skills:**

<p><b>Structures</b></p> <ul style="list-style-type: none"> <li>-Show an understanding of the qualities of materials to choose appropriate tools to cut and shape.</li> <li>-Use a range of practical skills to independently create products eg/ cutting, drilling, screwing, nailing, gluing, filling and sanding.</li> </ul>	<p><b>Electronics</b></p> <ul style="list-style-type: none"> <li>-Know how more complex electrical circuits and components can be used to create functional products and how to program a computer to monitor changes in the environment and control their products</li> <li>-Write code to control and monitor models or products.</li> <li>-Know how more complex electrical circuits and components can be used to create functional products and how to program a computer to monitor changes in the environment and control their products.</li> <li>-Create circuits from kits which use a variety of components</li> <li>-Create circuits from kits which use a variety of components</li> </ul>
<p><b>Food</b></p> <ul style="list-style-type: none"> <li>-Measure accurately and calculate ratios of ingredients to scale up or scale down from a recipe.</li> <li>-Create and refine recipes, including ingredients, methods, cooking times and temperatures.</li> <li>-Understand the seasonality of food.</li> <li>-Understand that different food and drink contain different substances – nutrients, water and fibre – that are needed for health.</li> </ul>	