

## End Points for Design Technology Year 3/4

	Year 3	Year 4
<b>Mechanical systems</b>	<p>Levers and Linkages</p> <ul style="list-style-type: none"> <li>• Understand and use lever and linkage mechanisms</li> <li>• Distinguish between fixed and loose pivots.</li> <li>• Know and use technical vocabulary relevant to the project.</li> </ul>	<p>Pneumatics</p> <ul style="list-style-type: none"> <li>• Understand and use pneumatic mechanisms.</li> <li>• Know and use technical vocabulary relevant to the project.</li> </ul>
<b>Structures</b>	<p>Shell structures</p> <ul style="list-style-type: none"> <li>• Develop and use knowledge of how to construct stiff, strong shell structures.</li> <li>• Develop knowledge of nets of cubes and cuboids.</li> <li>• Know and use technical vocabulary relevant to the project.</li> </ul>	<p>Structures- CAD</p> <ul style="list-style-type: none"> <li>• Develop and use knowledge of nets of more complex 3-D shapes.</li> <li>• Develop and use knowledge of how to construct knowledge of how to construct strong, stiff shell structures accurately.</li> <li>• Understand how to use simple CAD to create designs.</li> </ul>
<b>Electrical systems</b>		<p>1)Simple programming and control 2)Simple circuits and switches</p> <ul style="list-style-type: none"> <li>• Understand and use electrical systems in their project incorporating switches, buzzers and bulbs.</li> <li>• Know and use technical vocabulary.</li> <li>• Apply understanding of computing to program and control their product.</li> </ul>
<b>Food</b>	<p>Healthy and varied diet</p> <ul style="list-style-type: none"> <li>• Know how to use appropriate equipment and utensils to prepare and combine food.</li> <li>• Know about a range of fresh and processed ingredients appropriate for their product.</li> <li>• Know and use technical vocabulary relevant to the project.</li> </ul>	
<b>Textiles</b>	<p>2-D shape to 3-D product-textiles</p> <ul style="list-style-type: none"> <li>• Know how to strengthen, stiffen and reinforce existing fabrics.</li> <li>• Understand how to securely join two pieces of fabric together.</li> <li>• Understand the need for patterns and seam allowance.</li> <li>• Know and use technical vocabulary relevant to the project.</li> </ul>	