

# Year 8 & 9 – DESIGN TECHNOLOGY Programme of Study

Across Year 8 and Year 9, pupils spend three terms studying Food Technology and three terms studying in the workshop. The sequence between classes will vary.

Food Technology Term 1	Food Technology Term 2	Food Technology Term 3
<p><b>Module 1 – Healthy Eating</b> Understanding of nutrition as outlined in the eight healthy eating guidelines.</p> <ul style="list-style-type: none"> <li>• The value of starchy foods in the diet</li> <li>• The value of fruit and vegetables in the diet</li> <li>• The value of fish in the diet</li> <li>• Types of fat, it's value in the diet and the risks of eating too much.</li> <li>• Salt requirements and the issues surrounding eating too much</li> <li>• Energy intake and output.</li> <li>• Food miles</li> <li>• Seasonal foods</li> <li>• Sensory analysis of foods</li> </ul> <p>When completing this module pupils make a selection of dishes chosen to support the theory topics as well as to encourage the further development of practical skills.</p> <p><b><u>Milestone Assessment:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Theory task</b> – to adjust a traditional recipe for macaroni cheese making it lower in fat and higher in fibre.</li> <li>• <b>Practical task</b> – To make the macaroni cheese which will involve making a cheese sauce.</li> </ul>	<p><b>Module 2 – Food choices</b> Appreciating the issues that influence a person's food choices.</p> <ul style="list-style-type: none"> <li>• Nutrition and how it influences food choices.</li> <li>• The energy balance</li> <li>• Vegetarian diets</li> <li>• Food labelling</li> <li>• Culture and religious influences on food choices</li> <li>• Life stages</li> <li>• Family influences</li> <li>• Cost of foods</li> <li>• Celebrations</li> </ul> <p>When completing this module pupils make a selection of dishes chosen to support the theory topics as well as to encourage the further development of practical skills.</p> <p><b><u>Milestone Assessment:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Theory task</b> – A written test consisting of multiple choice and extended answer questions.</li> <li>• <b>Practical task</b> – To choose and independently remake one of the dishes from the module.</li> </ul>	<p><b>Module 3 – Science of baking</b> Looking ahead to GCSE: An insight into the science of raising agents and cookery.</p> <ul style="list-style-type: none"> <li>• How raising agents work</li> <li>• Types of raising agents</li> <li>• Creating a foam to make meringue</li> <li>• Using steam as a raising agent</li> <li>• Using mechanical raising agents</li> <li>• Experimenting with different types of chemical raising agents to make cakes.</li> <li>• Using yeast as a raising agent.</li> </ul> <p>When completing this module pupils make a selection of dishes chosen to support the theory topics as well as to encourage the further development of practical skills.</p> <p><b><u>Milestone Assessment:</u></b></p> <ul style="list-style-type: none"> <li>• <b>Theory task</b> – A written test consisting of multiple choice and extended answer questions.</li> <li>• <b>Practical task</b> – To make a Swiss roll using air as a raising agent.</li> </ul>

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Workshop Term 1	Workshop Term 2	Workshop Term 3
<p><b><u>Materials Investigation</u></b>  <b>Key content covered:</b></p> <ul style="list-style-type: none"> <li>• Responding to a Design Brief.</li> <li>• Analysing the 6R's of sustainability.</li> <li>• Investigation of materials.</li> <li>• Exploring skills.</li> <li>• Designing for a Client</li> <li>• Hand Tool skills</li> </ul> <p><b><u>Milestone Assessment:</u></b> Designing a flat pack stand.</p> <p><b><u>The Design task:</u></b> Designing a mobile device stand</p> <p><b>Key content covered:</b></p> <ul style="list-style-type: none"> <li>• Methods of production.</li> <li>• The circular economy v linear economy.</li> <li>• Designing for a Client.</li> <li>• Specification.</li> <li>• Iterating an idea</li> <li>• Template.</li> </ul> <p><b><u>Milestone Assessment:</u></b> Developing a Specification, design ideas and iterations</p>	<p><b><u>The Make task:</u></b> Making the device stand</p> <p><b>Key content covered:</b></p> <ul style="list-style-type: none"> <li>• Final idea</li> <li>• Using Peer feedback</li> <li>• Modelling</li> <li>• Environmental considerations making.</li> <li>• Evaluation against Specification</li> </ul> <p><b><u>Milestone assessment:</u></b> The manufacture of the device stand.</p> <p><b><u>Technical drawing and CAD:</u></b> How to communicate in 2D</p> <p><b>Key content covered:</b></p> <ul style="list-style-type: none"> <li>• Orthographic projection,</li> <li>• Isometric,</li> <li>• Freehand sketching</li> <li>• CAD software</li> </ul> <p><b><u>Milestone Assessment:</u></b> Series of drawing exercises based on communicating the device stand using techniques covered.</p>	<p><b><u>All about timbers</u></b></p> <p><b>Key content covered:</b></p> <ul style="list-style-type: none"> <li>• Investigating Timbers (Hardwoods, Softwoods and Manufactured boards)</li> <li>• Tools and Equipment</li> <li>• Measuring and marking; Shaping; Jointing (Dovetail v Finger joint)</li> <li>• Existing product analysis</li> </ul> <p><b><u>Milestone Assessment:</u></b> The jointing timber challenge. A practical response</p> <p><b><u>Developing a product in softwood</u></b></p> <p><b>Key content covered:</b></p> <ul style="list-style-type: none"> <li>• Adhesives</li> <li>• Aesthetics (how to individualize a product)</li> <li>• Pyrography, the art of wood burning decoration</li> <li>• Product sustainability &amp; Product life cycle</li> <li>• Developing a Specification &amp; Client requirements.</li> </ul> <p><b><u>Milestone Assessment:</u></b> Using techniques we have covered produce a decorative template for your prototype</p> <p><b><u>Realising your timber framed product.</u></b></p> <p><b>Key content covered:</b></p> <ul style="list-style-type: none"> <li>• Appropriate tools; Health and Safety; Manufacture.</li> <li>• Use of adhesives.</li> <li>• Working a finish / Applying a finish.</li> <li>• Responding to client feedback</li> <li>• Production methods</li> </ul> <p><b><u>Milestone Assessment:</u></b> The manufacture of the Product</p>