

## Curriculum Overview: Design Technology

Year Group	Content overview Cycle 1	Content overview Cycle 2	Content overview Cycle 3
5	<b>Gumball Dispensing Machine</b> <ul style="list-style-type: none"> <li>• Card modelling / Prototyping</li> <li>• Mechanisms</li> </ul>	<b>Bridges</b> <ul style="list-style-type: none"> <li>• Designing, making and testing bridge structures</li> <li>• Adding strength and stability to structures</li> </ul>	<b>Shakespeare's Globe</b> <ul style="list-style-type: none"> <li>• Scale model making of a well-known architectural structure</li> <li>• Set design</li> </ul>
	<b>Food &amp; Nutrition Immersion Day:</b> Guacamole with tortilla chips (Mayans – Hist/Eng)	<b>Food &amp; Nutrition Immersion Day:</b> Eggless sponge cake (WW2 – Hist/Eng)	<b>Food &amp; Nutrition Immersion Day:</b> Seasonal veg pizzas (Communities – Geog)
6	<b>LED Torch Project</b> <ul style="list-style-type: none"> <li>• Circuit building / component identification</li> <li>• Introduction to workshops tools and equipment</li> </ul>	<b>Viking Longships</b> <ul style="list-style-type: none"> <li>• Scale modelling to create a realistic product</li> <li>• Figure modelling in the style of Giacometti</li> </ul>	<b>Great Chinese Inventions</b> <ul style="list-style-type: none"> <li>• Influence and impact of inventions designed in ancient China</li> <li>• Designing and making a working product influenced by Chinese culture</li> <li>• Testing materials for their properties</li> </ul>
	<b>Food &amp; Nutrition Immersion Day:</b> Victoria sponge (Victorians – Hist/Eng)	<b>Food &amp; Nutrition Immersion Day:</b> Jerk chicken kebabs with mango salsa (Windrush – Hist/Geog)	<b>Food &amp; Nutrition Immersion Day:</b> Greek meatballs with tzatziki (Greece – Hist/Geog)
7	<b>Food &amp; Nutrition</b> <ul style="list-style-type: none"> <li>• Healthy and varied diet</li> <li>• Importance of nutrition</li> <li>• Cooking for various needs/wants/values</li> </ul>	<b>Graphics: Mobile Phone Stand</b> <ul style="list-style-type: none"> <li>• CAD/CAM</li> <li>• Polymer line bending</li> <li>• Designing to solve a real-world problem</li> </ul>	<b>RMT: Chocolate Tray and Packaging</b> <ul style="list-style-type: none"> <li>• Thermoforming process / net design and manufacture</li> <li>• Designing for a user</li> <li>• Designing to solve a real-world problem</li> </ul>
8	<b>Food &amp; Nutrition</b> <ul style="list-style-type: none"> <li>• Making informed healthy choices</li> <li>• Range of preparation techniques</li> <li>• Modifying recipes in order to cook healthier dishes</li> </ul>	<b>Graphics: POS Display</b> <ul style="list-style-type: none"> <li>• CAD/CAM</li> <li>• Adding strength to scale structures</li> <li>• Designing to solve a real-world problem</li> </ul>	<b>RMT: Charles Rennie Mackintosh Inspired Jewellery</b> <ul style="list-style-type: none"> <li>• Casting process</li> <li>• CAD/CAM</li> <li>• Designing to solve a real-world problem</li> </ul>
9	<b>Food &amp; Nutrition</b>	<b>Graphics: Biomimicry Project</b> <ul style="list-style-type: none"> <li>• Design inspired by the natural world</li> </ul>	<b>Electronics</b> <ul style="list-style-type: none"> <li>• Lighting inspired by De Stijl design movement</li> <li>• CAD/CAM</li> <li>• Circuit building/components</li> </ul> <b>RMT: Wooden Storage Box</b> <ul style="list-style-type: none"> <li>• Joining and strengthening wood</li> <li>• Designing for a target market</li> </ul>

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