



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Design and Technology	<p><b>Design:</b></p> <ul style="list-style-type: none"> <li>design purposeful, functional, appealing products for themselves and other users based on simple design criteria</li> <li>generate, develop, model and communicate their ideas through talking, drawing, modelling and, where appropriate, information and communication technology</li> </ul> <p><b>Make:</b></p> <ul style="list-style-type: none"> <li>with support, select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</li> <li>select from and use a range of materials and components, including construction materials, textiles and ingredients, according to their characteristics</li> </ul> <p><b>Evaluate:</b></p> <ul style="list-style-type: none"> <li>Talk about their design, sharing what they like,</li> </ul>	<p><b>Design:</b></p> <ul style="list-style-type: none"> <li>design purposeful, functional, appealing products for themselves and other users based on design criteria</li> <li>explore and evaluate a range of different products.</li> <li>generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology</li> </ul> <p><b>Make:</b></p> <ul style="list-style-type: none"> <li>with support, select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</li> <li>select from and use a range of materials and components, including construction materials, textiles and ingredients, according to their characteristics,</li> </ul>	<p><b>Design</b></p> <ul style="list-style-type: none"> <li>use research and develop design criteria to inform the design of innovative, functional, appealing products aimed at particular individuals or groups</li> <li>Evaluate – investigate and analyse a range of existing products.</li> <li>understand how key events and individuals in design and technology have helped shape the world</li> <li>generate, develop and communicate their ideas through discussion, annotated sketches, cross-sectional diagrams, prototypes, pattern pieces and computer-aided design</li> </ul> <p><b>Make:</b></p> <ul style="list-style-type: none"> <li>select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] with developing accuracy.</li> <li>select from and use a wide range of materials</li> </ul>	<p><b>Design</b></p> <ul style="list-style-type: none"> <li>use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups</li> <li>understand how key events and individuals in design and technology have helped shape the world</li> <li>investigate and analyse a range of existing products</li> <li>generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional diagrams, prototypes, pattern pieces and computer-aided design</li> </ul> <p><b>Make:</b></p> <ul style="list-style-type: none"> <li>select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</li> <li>select from and use a wide range of materials</li> </ul>	<p><b>Design</b></p> <ul style="list-style-type: none"> <li>use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups</li> <li>investigate and analyse a range of existing products</li> <li>understand how key events and individuals in design and technology have helped shape the world</li> <li>generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</li> 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shaping, joining and finishing], accurately</li> </ul>

	<p>dislike and why</p> <ul style="list-style-type: none"> <li>• evaluate their ideas and products against design criteria</li> <li>• Suggest improvements.</li> </ul> <p><b>Technical knowledge:</b></p> <ul style="list-style-type: none"> <li>• build structures, exploring how they can be made stronger, stiffer and more stable</li> <li>• explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products</li> </ul> <p><b>Cooking and Nutrition:</b></p> <ul style="list-style-type: none"> <li>• use the basic principles of a healthy and varied diet to prepare dishes</li> <li>• understand where food comes from</li> </ul>	<p>explaining choices.</p> <p><b>Evaluate:</b></p> <ul style="list-style-type: none"> <li>• Talk about their design, sharing what they like, dislike and why</li> <li>• evaluate their ideas and products against design criteria</li> <li>• identify strengths and weaknesses and discuss possible reasons for them</li> <li>• Suggest improvements</li> </ul> <p><b>Technical knowledge:</b></p> <ul style="list-style-type: none"> <li>• build structures, exploring how they can be made stronger, stiffer and more stable</li> <li>• explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products</li> </ul> <p><b>Cooking and Nutrition:</b></p> <ul style="list-style-type: none"> <li>• use the basic principles of a healthy and varied diet to prepare dishes</li> <li>• understand where food comes from</li> </ul>	<p>and components, including construction materials, textiles and ingredients, explaining their choices.</p> <p><b>Evaluate:</b></p> <ul style="list-style-type: none"> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>• Make suggestions to modify and improve their work.</li> </ul> <p><b>Technical knowledge:</b></p> <ul style="list-style-type: none"> <li>• apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>• understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</li> <li>• understand and use electrical systems in their products [for example, series circuits</li> <li>• incorporating switches, bulbs, buzzers and motors]</li> <li>• apply their understanding of computing to program, monitor and control their products.</li> </ul>	<p>and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities</p> <p><b>Evaluate:</b></p> <ul style="list-style-type: none"> <li>• evaluate their ideas and products against their own design criteria</li> <li>• Reflect on effective and ineffective designs and their design process</li> <li>• Describe characteristics that make their final product effective</li> <li>• consider the views of others to improve their work</li> </ul> <p><b>Technical knowledge:</b></p> <ul style="list-style-type: none"> <li>• apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>• understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]</li> <li>• understand and use electrical systems in their products [for example, series circuits</li> <li>• incorporating switches, bulbs, buzzers and motors]</li> <li>• apply their</li> </ul>	<ul style="list-style-type: none"> <li>• select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities, especially those that are sustainable.</li> <li>• Justify your choices.</li> </ul> <p><b>Evaluate:</b></p> <ul style="list-style-type: none"> <li>• evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</li> <li>• Explain key functions and features of their product.</li> <li>• Reflect on effective and ineffective designs and their design process</li> <li>• Describe characteristics that make their product effective (considering purpose and audience).</li> <li>• Be expressive and analytical, considering the view of others: to adapt, extend and justify their work.</li> </ul> <p><b>Technical knowledge:</b></p> <ul style="list-style-type: none"> <li>• apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> <li>• understand and use mechanical systems in</li> </ul>	<ul style="list-style-type: none"> <li>• select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities, especially those that are sustainable.</li> <li>• Justify your choices.</li> </ul> <p><b>Evaluate:</b></p> <ul style="list-style-type: none"> <li>• evaluate their ideas and products against their own design criteria and consider the views of 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			<p><b>Cooking and Nutrition:</b></p> <ul style="list-style-type: none"> <li>• understand and apply the principles of a healthy and varied diet</li> <li>• prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</li> <li>• understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</li> </ul>	<p>understanding of computing to program, monitor and control their products.</p> <p><b>Cooking and Nutrition:</b></p> <ul style="list-style-type: none"> <li>• understand and apply the principles of a healthy and varied diet</li> <li>• prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</li> <li>• understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</li> </ul>	<p>their products [for example, gears, pulleys, linkages]</p> <ul style="list-style-type: none"> <li>• cams, levers and linkages]</li> <li>• understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]</li> <li>• apply their understanding of computing to program, monitor and control their products.</li> </ul> <p><b>Cooking and Nutrition:</b></p> <ul style="list-style-type: none"> <li>• understand and apply the principles of a healthy and varied diet</li> <li>• prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</li> <li>• understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</li> </ul>	<ul style="list-style-type: none"> <li>• understand and use mechanical systems in their products [for example, gears, pulleys, linkages]</li> <li>• understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]</li> <li>• apply their understanding of computing to program, monitor and control their products.</li> </ul> <p><b>Cooking and Nutrition:</b></p> <ul style="list-style-type: none"> <li>• understand and apply the principles of a healthy and varied diet</li> <li>• prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</li> <li>• understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</li> </ul>
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