

### Design and Technology Medium Term Plan

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year 1</b>	<b>Mechanisms: Wheels + Axels</b> <ul style="list-style-type: none"> <li>Design purposeful, functional, appealing products for themselves and other users based on design criteria.</li> <li>Generate, develop, model and communicate their ideas through talking, drawing, templates, mock- ups and, where appropriate, information and communication technology.</li> <li>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 wide range of materials and components, including</li> </ul>	<b>Mechanisms: Making a moving storybook</b> <ul style="list-style-type: none"> <li>Design purposeful, functional, appealing products for themselves and other users based on design criteria.</li> <li>Generate, develop, model and communicate their ideas through talking, drawing, templates, mock- ups and, where appropriate, information and communication technology.</li> <li>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 wide range of materials and</li> </ul>	<b>Cooking + Nutrition: Fruits + Vegetables</b> <ul style="list-style-type: none"> <li>Design purposeful, functional, appealing products for themselves and other users based on design criteria</li> <li>Generate, develop, model and communicate their ideas through talking, drawing, templates, mock- ups and, where appropriate, information and communication technology.</li> <li>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 wide range of</li> </ul>	<b>Structures: Constructing a windmill</b> <ul style="list-style-type: none"> <li>Design purposeful, functional, appealing products for themselves and other users based on design criteria.</li> <li>Generate, develop, model and communicate their ideas through talking, drawing, templates, mock- ups and, where appropriate, information and communication technology.</li> </ul>	<b>Textiles: Puppets</b> <ul style="list-style-type: none"> <li>Design purposeful, functional, appealing products for themselves and other users based on design criteria.</li> <li>Generate, develop, model and communicate their ideas through talking, drawing, templates, mock- ups and, where appropriate, information and communication technology.</li> <li>Select from and use a range of tools and equipment to perform practical</li> </ul>	<b>Cooking + Nutrition: Smoothies</b> <ul style="list-style-type: none"> <li>Design purposeful, functional, appealing products for themselves and other users based on design criteria</li> <li>Generate, develop, model and communicate their ideas through talking, drawing, templates, mock- ups and, where appropriate, information and communication technology.</li> <li>Select from and use a range of tools and equipment to perform practical tasks [for</li> </ul>



	<p>construction materials, textiles and ingredients, according to their characteristics.</p> <ul style="list-style-type: none"> <li>• Explore and evaluate a range of existing products.</li> <li>• Evaluate their ideas and products against design criteria.</li> <li>• Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products</li> </ul>	<p>components, including construction materials, textiles and ingredients, according to their characteristics.</p> <ul style="list-style-type: none"> <li>• Explore and evaluate a range of existing products.</li> <li>• Evaluate their ideas and products against design criteria.</li> <li>• Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products</li> </ul>	<p>materials and components, including construction materials, textiles and ingredients, according to their characteristic</p> <ul style="list-style-type: none"> <li>• Evaluate their ideas and products against design criteria</li> <li>• Understand where food comes from.</li> </ul>	<ul style="list-style-type: none"> <li>• 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 wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</li> <li>• Explore and evaluate a range of existing products.</li> <li>• Evaluate their ideas and products</li> </ul>	<p>tasks [for example, cutting, shaping, joining and finishing].</p> <ul style="list-style-type: none"> <li>• Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</li> <li>• Evaluate their ideas and products against design criteria.</li> </ul>	<p>example, cutting, shaping, joining and finishing].</p> <ul style="list-style-type: none"> <li>• Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristic</li> <li>• Evaluate their ideas and products against design criteria</li> <li>• Understand where food comes from.</li> </ul>
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				<p>against design criteria.</p> <ul style="list-style-type: none"> <li>• Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products</li> <li>• Build structures, exploring how they can be made stronger, stiffer and more stable.</li> </ul>		
<b>Year 2</b>	<p><b>Mechanisms: Fairground Wheel</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>• Generate, develop, model</li> </ul>		<p><b>Cooking + Nutrition: Balanced Diet</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>• Generate, develop, model and communicate their ideas through talking, drawing,</li> </ul>	<p><b>Mechanisms: Making a moving monster</b></p> <ul style="list-style-type: none"> <li>• Design purposeful, functional, appealing products for themselves and other users based on design criteria.</li> </ul>	<p><b>Structures: Baby Bear's Chair</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>• Generate, develop, model</li> </ul>	<p><b>Textiles: Pouches</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>• Generate, develop, model</li> </ul>

	<p>and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</p> <ul style="list-style-type: none"> <li>• 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 wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</li> <li>• Explore and evaluate a range of existing products.</li> </ul>		<p>templates, mock-ups and, where appropriate, information and communication technology.</p> <ul style="list-style-type: none"> <li>• 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 wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</li> <li>• Explore and evaluate a range of existing products.</li> <li>• Evaluate their ideas and products against design criteria.</li> <li>• Use basic principles of a healthy and</li> </ul>	<ul style="list-style-type: none"> <li>• Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</li> <li>• 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 wide range of materials and components, including</li> </ul>	<p>and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</p> <ul style="list-style-type: none"> <li>• 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 wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</li> <li>• Evaluate their ideas and products against design criteria.</li> </ul>	<p>and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</p> <ul style="list-style-type: none"> <li>• 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 wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</li> <li>• Explore and evaluate a range of existing products.</li> </ul>
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	<ul style="list-style-type: none"> <li>Evaluate their ideas and products against design criteria.</li> <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>varied diet to prepare dishes.</p> <ul style="list-style-type: none"> <li>Understand where food comes from.</li> </ul>	<p>construction materials, textiles and ingredients, according to their characteristics.</p> <ul style="list-style-type: none"> <li>Explore and evaluate a range of existing products.</li> <li>Evaluate their ideas and products against design criteria</li> <li>Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.</li> </ul>	<ul style="list-style-type: none"> <li>Build structures, exploring how they can be made stronger, stiffer and more stable.</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate their ideas and products against design criteria.</li> </ul>
<b>Year 3</b>	<p><b>Textiles: Cross Stitch + Applique</b></p> <ul style="list-style-type: none"> <li>Use research and develop design criteria to inform</li> </ul>	<p><b>Electrical Systems: Electric Poster</b></p> <ul style="list-style-type: none"> <li>Use research and develop design criteria to inform</li> </ul>	<p><b>Pneumatic Toys</b></p> <ul style="list-style-type: none"> <li>Use research and develop design criteria to inform the design of</li> </ul>	<p><b>Digital World: Wearable Technology</b></p> <ul style="list-style-type: none"> <li>Use research and develop design criteria</li> </ul>	<p><b>Cooking + Nutrition: Eating Seasonally</b></p> <ul style="list-style-type: none"> <li>Generate, develop, model and</li> </ul>	<p><b>Structures: Constructing a Castle</b></p> <ul style="list-style-type: none"> <li>Use research and develop design criteria to inform</li> </ul>

	<p>the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <ul style="list-style-type: none"> <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> <li>• Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining</li> </ul>	<p>the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <ul style="list-style-type: none"> <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> <li>• Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining</li> </ul>	<p>innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <ul style="list-style-type: none"> <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> <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 and components,</li> </ul>	<p>to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <ul style="list-style-type: none"> <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> <li>• Investigate and analyse a range of existing products.</li> </ul>	<p>communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</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 and components, including construction materials, textiles and ingredients, according to their characteristics.</li> </ul>	<p>the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <ul style="list-style-type: none"> <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> <li>• Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining</li> </ul>
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	<p>and finishing], accurately</p> <ul style="list-style-type: none"> <li>• Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</li> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> </ul>	<p>and finishing], accurately.</p> <ul style="list-style-type: none"> <li>• Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</li> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> <li>• Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors].</li> </ul>	<p>including construction materials, textiles and ingredients, according to their characteristics.</p> <ul style="list-style-type: none"> <li>• Investigate and analyse a range of existing products.</li> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> <li>• Understand how key events and individuals in design and technology have helped shape the world.</li> <li>• Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages].</li> </ul>	<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>• Understand how key events and individuals in design and technology have helped shape the world.</li> <li>• Apply their understanding of computing to program, monitor and control their products.</li> </ul>	<ul style="list-style-type: none"> <li>• Understand and apply principles of a healthy and varied diet.</li> <li>• Prepare and cook 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>and finishing], accurately.</p> <ul style="list-style-type: none"> <li>• Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</li> <li>• Investigate and analyse a range of existing products.</li> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> <li>• Apply their understanding of how to strengthen, stiffen and reinforce more complex structures.</li> </ul>
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<b>Year 4</b>	<b>Digital World: Mindful Moments timer</b> <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</li> </ul>	<b>Cooking + Nutrition: Adapting a Recipe</b> <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</li> </ul>	<b>Electrical Systems: Torches</b> <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> </ul>	<b>Structures: Pavillions</b> <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</li> </ul>	<b>Textiles: Fastenings</b> <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</li> </ul>	<b>Mechanical Systems: Making a Slingshot Car</b> <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</li> </ul>



	<p>individuals or groups.</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>• Investigate and analyse a range of existing products.</li> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> <li>• Apply their understanding of computing to program, monitor and control their products.</li> </ul>	<p>individuals or groups.</p> <ul style="list-style-type: none"> <li>• Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computeraided design.</li> <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 and components, including</li> </ul>	<ul style="list-style-type: none"> <li>• Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computeraided design.</li> <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 and components, including construction materials, textiles and ingredients, according to their characteristics.</li> </ul>	<p>particular individuals or groups.</p> <ul style="list-style-type: none"> <li>• Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computeraided design.</li> <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> </ul>	<p>individuals or groups.</p> <ul style="list-style-type: none"> <li>• Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computeraided design.</li> <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 and components, including</li> </ul>	<p>individuals or groups.</p> <ul style="list-style-type: none"> <li>• Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computeraided design.</li> <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 and components, including</li> </ul>
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		<p>construction materials, textiles and ingredients, according to their characteristics.</p> <ul style="list-style-type: none"> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> <li>Prepare and cook variety of predominantly savoury dishes using a range of cooking techniques.</li> </ul>	<ul style="list-style-type: none"> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> <li>Understand how key events and individuals in design and technology have helped shape the world.</li> <li>Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors].</li> </ul>	<ul style="list-style-type: none"> <li>Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</li> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> <li>Apply their understanding of how to strengthen, stiffen and reinforce more</li> </ul>	<p>construction materials, textiles and ingredients, according to their characteristics.</p> <ul style="list-style-type: none"> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> </ul>	<p>construction materials, textiles and ingredients, according to their characteristics.</p> <ul style="list-style-type: none"> <li>Investigate and analyse a range of existing products</li> <li>Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> <li>Understand how key events and individuals in design and technology have helped shape the world</li> <li>Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages].</li> </ul>
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				complex structures.		
<b>Year 5</b>	<b>Mechanical systems: Pop up books</b> <ul style="list-style-type: none"> <li>Use research and develop design</li> </ul>	<b>Electrical systems: Doodlers</b> <ul style="list-style-type: none"> <li>Use research and develop design</li> </ul>	<b>Cooking and nutrition: Developing a recipe</b> <ul style="list-style-type: none"> <li>Use research and develop design</li> </ul>	<b>Structure: Bridges</b> <ul style="list-style-type: none"> <li>Use research and develop</li> </ul>	<b>Textiles: Stuffed toys</b> <ul style="list-style-type: none"> <li>Use research and develop design</li> </ul>	<b>Digital World: Monitoring Devices</b> <ul style="list-style-type: none"> <li>Use research and develop design</li> </ul>

	<p>criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <ul style="list-style-type: none"> <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> <li>• Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting,</li> </ul>	<p>criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</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>• Investigate and analyse a range of existing products.</li> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> </ul>	<p>criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <ul style="list-style-type: none"> <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> <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 wider range of</li> </ul>	<p>design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <ul style="list-style-type: none"> <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> <li>• Select from and use a wider range of tools and equipment to</li> </ul>	<p>criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <ul style="list-style-type: none"> <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> <li>• Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting,</li> </ul>	<p>criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <ul style="list-style-type: none"> <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> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to</li> </ul>
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	<p>shaping, joining and finishing], accurately.</p> <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.</li> <li>• Investigate and analyse a range of existing products.</li> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> <li>• Understand and use mechanical systems in their products [for example, gears,</li> </ul>	<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 electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors].</li> </ul>	<p>materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities.</p> <ul style="list-style-type: none"> <li>• Investigate and analyse a range of existing products.</li> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> <li>• Understand how key events and individuals in design and technology have helped shape the world.</li> <li>• Apply their understanding of computing to program, monitor and control their products.</li> <li>• Understand and apply principles of a</li> </ul>	<p>perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.</p> <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.</li> <li>• Investigate and analyse a range of existing products.</li> <li>• Evaluate their ideas and products against their own design</li> </ul>	<p>shaping, joining and finishing], accurately.</p> <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.</li> <li>• Investigate and analyse a range of existing products.</li> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> </ul>	<p>improve their work.</p> <ul style="list-style-type: none"> <li>• Understand how key events and individuals in design and technology have helped shape the world.</li> <li>• Apply their understanding of how to strengthen, stiffen and reinforce more complex structures.</li> <li>• Apply their understanding of computing to program, monitor and control their products.</li> </ul>
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	pulleys, cams, levers and linkages].		<p>healthy and varied diet.</p> <ul style="list-style-type: none"> <li>• Prepare and cook 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>criteria and consider the views of others to improve their work.</p> <ul style="list-style-type: none"> <li>• Apply their understanding of how to strengthen, stiffen and reinforce more complex structures.</li> </ul>		
<b>Year 6</b>	<b>Digital World: Navigating the world</b>	<b>Cooking and nutrition: Come Dine with me</b>	<b>Structures: Playgrounds</b> <ul style="list-style-type: none"> <li>• Use research and develop design</li> </ul>	<b>Textiles: Waistcoats</b> <ul style="list-style-type: none"> <li>• Use research and develop</li> </ul>	<b>Electrical systems: Steady hand games</b>	<b>Mechanical systems: Automata toys</b>

	<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>• Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</li> <li>• Select from and use a wider range of tools and equipment to perform practical</li> </ul>	<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>• Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</li> <li>• Select from and use a wider range of tools and equipment to perform practical</li> </ul>	<p>criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <ul style="list-style-type: none"> <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> <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 wider range of</li> </ul>	<p>design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.</p> <ul style="list-style-type: none"> <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> <li>• Select from and use a wider range of tools and equipment to</li> </ul>	<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>• Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</li> <li>• Select from and use a wider range of tools and equipment to perform practical</li> </ul>	<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>• Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</li> <li>• Select from and use a wider range of tools and equipment to perform practical</li> </ul>
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	<p>tasks [for example, cutting, shaping, joining and finishing], accurately.</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>• Apply their understanding of computing to program, monitor and control their products.</li> </ul>	<p>tasks [for example, cutting, shaping, joining and finishing], accurately.</p> <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.</li> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> <li>• Understand and apply principles of a healthy and varied diet.</li> <li>• Prepare and cook variety of predominantly</li> </ul>	<p>materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities.</p> <ul style="list-style-type: none"> <li>• Investigate and analyse a range of existing products.</li> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> <li>• Apply their understanding of how to strengthen, stiffen and reinforce more complex structures.</li> </ul>	<p>perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.</p> <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.</li> <li>• Investigate and analyse a range of existing products.</li> <li>• Evaluate their ideas and products against their own design</li> </ul>	<p>tasks [for example, cutting, shaping, joining and finishing], accurately.</p> <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.</li> <li>• Investigate and analyse a range of existing products.</li> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> <li>• Understand how key events and individuals in</li> </ul>	<p>tasks [for example, cutting, shaping, joining and finishing], accurately.</p> <ul style="list-style-type: none"> <li>• Investigate and analyse a range of existing products</li> <li>• Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.</li> <li>• Understand how key events and individuals in design and technology have helped shape the world.</li> <li>• Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages].</li> </ul>
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		<p>savoury dishes using a range of cooking techniques.</p> <ul style="list-style-type: none"><li>• Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</li></ul>		<p>criteria and consider the views of others to improve their work.</p>	<p>design and technology have helped shape the world.</p> <ul style="list-style-type: none"><li>• Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors].</li></ul>	
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