



## Design Technology - Long Term Plan

### Cycle A

	Autumn Term	Spring Term	Summer Term
<b>KS1</b>	<p style="text-align: center;">Mechanisms. <b>Sliders and Levers</b></p> <p>To use slider and lever mechanisms to make either a moving book, toy or a Christmas card.</p>	<p style="text-align: center;">Structures. <b>Freestanding structures</b></p> <p>To use measuring, cutting, marking, shaping and joining to make a piece of playground equipment for EYFS or to make bridges for small world play.</p>	<p style="text-align: center;">Food. <b>Preparing fruit and vegetables</b></p> <p>To smell and taste fruit and to prepare fruit (wash, grate, peel, slice, squeeze etc.) To design - fruit faces, or healthy kebabs with a dip.</p>
<b>LKS2</b>	<p style="text-align: center;">Structures. <b>Shell Structures</b></p> <p>To design a new gift box for a Christmas present with multipurpose use – E.G - a tree hanging decoration.</p>	<p style="text-align: center;">Textiles. <b>From 2D Shape to 3D Product</b></p> <p>To design and make a an item for a Mediterranean holiday – E.G – A beach bag for a specific purpose.</p>	<p style="text-align: center;">Food. <b>Healthy and Varied Diet</b></p> <p>To design and make a healthy snack or biscuit bar to include in a child or adult’s lunch.</p>
<b>UKS2</b>	<p style="text-align: center;">Mechanical Systems <b>Pulleys and Gears</b></p> <p>To design and make a moving display or a toy for a young child which moves by using pulleys or gears.</p>	<p style="text-align: center;">Textiles. <b>Combining Different Fabric Shapes</b></p> <p>To design and make clothes for the EYFS teddy bear using different seams and fastenings.</p>	<p style="text-align: center;">Food. <b>Celebrating Culture and Seasonality</b></p> <p>To explore and research seasonally available foods to design and create healthy pizzas.</p>



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### Cycle B

	Autumn Term	Spring Term	Summer Term
<b>KS1</b>	<p style="text-align: center;"><b>Mechanisms. Wheels and Axles</b></p> <p>To use construction kits, to explore different ways of making axles. To be able to mark, hold, cut and join materials. To look at vehicles over time, and to think of and design our own vehicles with wheels.</p>	<p style="text-align: center;"><b>Textiles Templates and Joining Techniques</b></p> <p>To use a template or simple paper pattern, to select materials, mark out, cut and join to make a product – a hat for teddy or a child to shade them from the sun, or a simple mitten/glove to keep you warm in winter.</p>	<p style="text-align: center;"><b>Food. Preparing fruit and vegetables</b></p> <p>To smell, taste and prepare vegetables - wash, grate, peel, slice. To design a sandwich or wrap for a picnic event and consider what bread and sandwich design would be used. To use our own grown vegetables/salad items.</p>
<b>LKS2</b>	<p style="text-align: center;"><b>Electricity Simple Circuits</b></p> <p>To design and make a lamp / torch, or other illuminated item for in a child’s bedroom. Possible links to Christmas - can you make a lit-up Christmas decoration?</p>	<p style="text-align: center;"><b>Mechanical Systems Levers and Linkages</b></p> <p>Design and make a moving celebration card using levers and linkages as components in the design.</p>	<p style="text-align: center;"><b>Food Healthy and Varied Diet</b></p> <p>Make a healthy Greek snack for example a salad or pitta. Alternatively, design your own Greek dips and prepare vegetables.</p>
<b>UKS2</b>	<p style="text-align: center;"><b>Electrical Systems More Complex Switches and Circuits</b></p> <p>To use switches and circuits to design and make a burglar alarm system for school. Alternatively, to make an electrical board game.</p>	<p style="text-align: center;"><b>Structures Frame Structures</b></p> <p>To make a scaled size model shelter to be used in the Amazonrainforest as a base on an expedition.</p>	<p style="text-align: center;"><b>Food Celebrating Culture and Seasonality</b></p> <p>To research, design and make a yeast-based product to enjoy as a snack after sports day.</p>