



Long Term Plan - DT

Design and Technology

In Design and Technology, children learn about the designed and made world and how things work and learn to design and make functional products for particular purposes and users.

In EYFS, children explore and discuss the use and properties of different construction materials. They select materials and techniques for a purpose, design and create products, evaluate the product's effectiveness and adapt their product.

In KS1 and KS2 each sequence of lessons children:

- Begin by considering the **user and purpose of the product** they will design to create design criteria for their product.
- They **investigate and evaluate existing products** thinking about how they are made and how well they fulfil their purpose.
- **Perform focused tasks** developing particular aspects of knowledge and technical skills
- Design 'something' for 'somebody' for 'some purpose'
- **Make the product applying knowledge** and understanding of materials and components, mechanisms and control systems, structures and health and safety
- **Evaluate their own product** against the design criteria

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Structures Simple mechanisms <i>Children will build structures, exploring how they can be made stronger, stiffer and more stable. They will explore simple mechanisms.</i> British values and SMSC Links: <i>We all have the right to learn and to grow in confidence.</i>		Food and Nutrition- Sensational Salads/ Healthy eating <i>Use the basic principles of a healthy and varied diet to prepare dishes. Understand where food comes from. Children will learn how to use kitchen equipment safely and hygienically. They will make a healthy savoury or fruit salad.</i> British values and SMSC Links: <i>Respect the values and beliefs of other. We all have the right to learn and to grow in confidence.</i>		Textiles – Recycled T-shirt Fabric printing <i>They can ask and answer simple questions about existing product and those that they have made. Children will select from and use a range of tools and equipment to perform practical tasks e.g. cutting, shaping, joining and finishing. Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology</i> British values and SMSC Links: <i>We all have the right to learn and to grow in confidence.</i>	
Year 2	Cooking and nutrition Super hero smoothies SMSC - Our children will begin to understand the importance of making healthy choices		Technical knowledge Moving pictures – levers and sliders SMSC – children will learn to use their imagination, be creative and reflective. They		Design Felt purses SMSC – Children will be taught to evaluate their own work and that of others	



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	<p>and the effect wrong choices may have on later life.</p>	<p>will learn to cooperate with one another valuing each other's opinions and respecting their ideas.</p>	
<p>Year 3</p>	<p>Weaving Wall Hanging</p> <p>Children will understand that materials have a practical and aesthetic purpose. They will develop and follow simple design criteria, identifying a purpose for what they are making. Children will also explore a range of different materials, identifying what they are made from and where they are from. Within this topic, we will look at how prehistoric people used weaving to make clothes.</p> <p><u>British Values/ SMSC</u></p> <p>The children will learn to develop their own ideas about their designs and be respectful of the work and ideas of others.</p>	<p>Cooking and Nutrition</p> <p>Linking with their science, children will understand and apply the principles of a healthy and varied diet. They will begin to understand seasonality and know when, where and how food is grown. They will start to follow a recipe which uses a range of cooking techniques.</p> <p><u>British Values/ SMSC</u></p> <p>The children will learn to make healthy choices and understand how these choice can affect them.</p>	<p>Lever Mechanisms</p> <p>The children will make a mechanical poster using a range of mechanical structures.</p> <p><u>British Values/ SMSC</u></p> <p>The children will work as part of a team to develop their ideas, ensuring that they both value and respect the opinions of others. The will use their imaginations to develop their design and reflect on their choices in order to improve their work.</p>
<p>Year 4</p>	<p>The Great Bread Bake off</p> <p>British Values and SMSC – Our children will begin to understand the importance of making healthy choices</p>	<p>Found objects- Robots</p> <p>British Values and SMSC – Our children will begin to explore and evaluate existing products, explaining the purpose of the product and whether it is designed well to meet the intended purpose.</p>	<p>Tie Dye T-shirts</p> <p>British Values and SMSC – Our children will begin to Evaluate their own finished product against their own design criteria and suggest how it might be improved.</p>
<p>Year 5</p>	<p>Electrical systems Harry Potter Wand</p> <p>Understand and know how to use more</p>	<p>Food and Nutrition Cooking</p> <p>Understand seasonality and know where</p>	<p>Textiles Heraldry / Personal Flag</p> <p>Use their research into existing products and</p>



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	complex mechanical and electrical systems	ingredients. Select appropriate ingredients and use a wide range of techniques to combine them. Understand the main food groups and the different nutrients.	market research to inform the design of their own product.
Year 6	Technical knowledge Animal Automata Link to BV /SMSC – Children will have the opportunity to evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.	Design Felt Phone Cases Links to BV / SMSC - <i>Children will learn to use their imagination, be creative and reflective</i>	Cooking and nutrition Global Food Link to BV /SMSC – Appreciation of cuisine from around the world.