



**Reepham Church of England Primary School**  
**Be Known. Be Loved. Belong.**  
**Long Term Planning**

**School Vision: Be Known. Be Loved. Belong.**  
***“Who you are is God’s gift to you. Who you become is your gift to God.”***  
***Subject Intent:***

Our inspiring and rigorous Design and Technology curriculum develops creative, technical and practical knowledge to perform everyday tasks using a range of materials including food. It encourages children to think creatively to design, make, critique and evaluate products which solve real and relevant problems.

**Spirituality in Design Technology**

What motivates designers and their decisions?

Is it their desire to make money or a desire to help and make improvements to daily life for everyone.

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	Autumn	Spring	Summer
Year 1	<b>Cooking and Nutrition:</b> Fruit & veg - Smoothies cooking and nutrition unit including opportunities for children to learn food preparation skills and greater emphasis on taste testing and ingredient choices.	<b>Mechanisms</b> – Axles and Wheels Learning about the key parts of a wheeled vehicle, the children develop an understanding of how wheels, axles and axle holders work while designing and making a moving vehicle.	<b>Structures:</b> Windmills Mechanisms: Wheel Axels Learn about the key parts of a wheeled vehicle, to develop an understanding of how wheels, axles and axle holders work. Design and make a moving vehicle.
Year 2	<b>Cooking and nutrition</b> – A balanced diet. – Making a wrap cooking and nutrition unit including opportunities for children to learn about the importance of a balanced diet and use that knowledge to create a tasty wrap.	<b>Textiles</b> – Pouches. Learn how to sew a running stitch ready to design, make and decorate a pouch using a template.	<b>Mechanical systems</b> - Moving Monster. Explore levers, linkages and pivots through existing products and experimentation, use this research to construct and assemble a moving monster.
Year 3	<b>Textile:</b> Cushions Learn and apply two new sewing techniques – cross-stitch and appliqué. Utilise these new skills to design and make a cushion.	<b>Structures:</b> Castles - Identify and learn about the key features of a castle, before designing and making a recycled-material castle (structure).	<b>Cooking and nutrition</b> - Eating Seasonally Including opportunities for children to learn about seasonal foods and create a seasonal food tart.
Year 4	<b>Electrical Systems:</b> Torches Identify the difference between electrical and electronic products. Evaluate a range of existing torches and their features, then develop a new functional torch design.	<b>Structures:</b> Pavilion 4 Investigate and model frame structures to improve their stability, then apply this research to design and create a stable, decorated pavilion.	<b>Cooking and nutrition:</b> Adapting a recipe (4) children to learn a basic biscuits recipe and adapt it to suit a target audience.
Year 5	<b>Cooking and nutrition:</b> What could be healthier? children create a simple Bolognese recipe and adapt it to improve nutritional content.	<b>Electrical systems:</b> Pop up book. Children to create a functional pop-up book using levers, sliders, layers and spacers to create paper-based mechanisms.	<b>Structures:</b> Bridges Test and analyse various types of bridge to determine their strength and stability. Explore material properties and sources, before marking, sawing and assembling a wooden truss bridge
Year 6	<b>Structures- Playground</b> Children will be designing and creating a model for a new playground featuring five apparatus, made from three different structures. Using a footprint as the base, practising visualising objects in plan view and including natural features within their designs.	<b>Electrical Systems</b> Steady hand game. Understand what is meant by fit for purpose design and form follows function. Design and develop a steady hand game using a series circuit, including housing and backboard.	<b>Cooking and nutrition</b> Come Dine with me – Children to create, design and make a meal – Fajitas.

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