



St. George's Catholic Primary School

To learn with kindness, respect and friendship through God's love

Design Technology Long Term Planning						
Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1		<p>Construction - Toy Makers' Workshop</p> <ul style="list-style-type: none">• How can we make a toy from recycled materials that is fun and safe to play with?• Explore and test different toys to identify fun, safe and functional features• Cut, join, and assemble materials to build a stable, moving toy; decorate to make it appealing• Sketch and label a simple toy plan using recycled, safe and strong materials• Practise cutting and joining techniques; explore simple mechanisms like wheels and axels• Test the toy's function and appearance;			<p>Food & Nutrition - Plant Power: Snack Like Jack What tasty plant snacks help us grow strong like Jack?</p>	<p>Textiles - Seaside Adventures <i>What shapes and colours will bring my seaside collage to life?</i></p>



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		suggest one improvement				
Year 2	Textiles - Buzzing Bookmarks <i>How can you make a bookmark that's both fun and useful?</i> <ul style="list-style-type: none">Investigate various types of bookmarks and their functional and aesthetic features Research bookmark features that are both functional and visually appealingSketch and plan product designsPractise threading needles and tying knots in threadDiscover how stitching techniques enhance the strength and appeal of a product Evaluate products for appearance, durability and function		Food & Nutrition - Super Veggies to the Rescue <i>How can we make veggies fun and delicious?</i> <ul style="list-style-type: none">Exploring different cooked potatoes and vegetables, comparing taste, texture and appearance and learning where potatoes come fromPlanning a potato snack by choosing flavours, seasonings and vegetables for wedges and dip, considering taste and health Practising food hygiene and safe preparation skills, including hand washing, safe cutting and correct use of toolsUsing preparation and cooking skills to follow a recipe step by step and			Construction - Rebuilding History <i>How can we build strong and stable houses like those from the time of the Great Fire of London?</i>



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			<p>prepare potato wedges and a dip safely</p> <ul style="list-style-type: none">• Testing and evaluating the finished dish by considering taste, safety and skills used and suggesting improvements			
Year 3		<p>Textiles- Stone Age Mysteries</p> <p><i>How can you make the perfect pouch for a Stone Age adventure?</i></p> <ul style="list-style-type: none">• Investigate different types of pouches and their features (functional and appealing)• Practise key stitching techniques (running stitch, cross stitch, and overstitch)• Sketch and plan product designs• Use a template to cut fabric accurately• Sew fabric pieces together to construct a functional product• Attach fasteners such as buttons, toggles or ties to complete the pouch	<p>Construction- Magnetic Mysteries</p> <p><i>How can we use magnets to make a model move mysteriously?</i></p> <ul style="list-style-type: none">• Investigate how magnets work and identify everyday uses of magnetic forces in toys and tools• Create design criteria and plan an Egyptian-themed model that uses magnets to create a surprising effect• Accurately measure, cut, join and assemble materials to build a functional Egyptian-themed model with magnetic effects		<p>Food & Nutrition- Roots and shoots</p> <p><i>What summer dishes can we make with root vegetables?</i></p>	



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		<ul style="list-style-type: none"> Learn how stitching techniques contribute to a strong and appealing product Evaluate products for appearance, durability and function 	<ul style="list-style-type: none"> Explore how to join, reinforce, stiffen and strengthen materials using folds, slots, tabs, ties, flanges and L-braces Test, improve and evaluate the model's function and appearance against design criteria, suggesting realistic improvements 			
Year 4		<p>Food & Nutrition - Chocolate that cares</p> <p><i>How can we craft chocolate that's fair for people and kind to the planet?</i></p> <ul style="list-style-type: none"> Understand Fairtrade's impact on farmers and the environment Explore taste, texture, and aroma Identify steps in chocolate production Sketch and plan product designs Melt, shape, and decorate chocolate safely Learn tempering and melting processes Evaluate products for appearance, texture, 		<p>Textiles - Bag a story</p> <p><i>How can we create a functional and creative book bag?</i></p> <ul style="list-style-type: none"> Exploring different bags and materials, comparing how designers use shape, fabric and features to make products strong and appealing Planning a book-themed bag by choosing decorations that meet user needs and using materials sustainably Practising and comparing stitches, understanding which are strongest 	<p>Construction - Roman Innovations: Bright Ideas</p> <p><i>How can we use electricity to make a working model?</i></p> <ul style="list-style-type: none"> Investigating how electricity and mechanical systems are used to create movement in vehicles and comparing modern powered movement with Roman transport Creating design criteria and planning a Roman chariot model that demonstrates how electrical components will 	



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		sustainability, and creativity		<p>and using tools and materials safely</p> <ul style="list-style-type: none"> •Using seam allowance and stitching pieces and handles securely to create a functional bag •Testing the finished bag for strength and usability, judging how well it meets design goals and suggesting improvements 	<p>power its movement</p> <ul style="list-style-type: none"> •Constructing a strong, functional and appealing •Roman chariot model by accurately assembling a chassis, wheels, axles, motor and circuit •Developing construction skills by exploring how to build a strong, stable chassis with wheels and axles •Testing, improving and evaluating the chariot's movement, stability and appearance against the design criteria and suggesting realistic improvements 	
Year 5		<p>Textiles - Moonlit Magic</p> <p><i>How can fabric and stitching create atmosphere?</i></p> <ul style="list-style-type: none"> • Investigate different types of textile wall 	<p>Construction – Fairytale Engineering</p> <p><i>How can we use pulleys and levers to solve a problem?</i></p>			<p>Food & Nutrition - Central America on a Plate</p> <p><i>How can we cook a dish that celebrates its cultural flavours?</i></p>



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		<p>hangings and their atmospheric effects</p> <ul style="list-style-type: none">• Practise key stitching techniques (blanket stitch, running stitch, and appliqué)• Use a template to cut fabric accurately and plan layering• Sketch and plan product designs• Sew fabric pieces together, ensuring durability work and neat finishing• Attach decorative and functional elements securely, such as loops for hanging• Learn how texture, fabric choice, and stitching techniques contribute to atmosphere and storytelling• Evaluate wall hangings for aesthetic impact, durability, and success in creating a spooky effect	<ul style="list-style-type: none">• Investigate how mechanisms work in everyday life and how they can solve problems• Create design criteria and plan a maquette of a theatre model that uses mechanisms to solve a fairy-tale problem• Construct a strong, functional and appealing maquette of a theatre model that uses mechanisms to solve a fairy-tale problem• Develop construction skills and experiment with how to make their own simple mechanisms• Test, improve and evaluate the model's function and appearance against design criteria, suggesting realistic improvements			
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Year 6		Construction - Electrifying Creations <i>How can we combine electricity and design to create a spooky, gothic-themed model?</i> <ul style="list-style-type: none">• Investigate Gothic architecture and products to identify features that create a dramatic and spooky effect• Plan and build electrical circuits, selecting components to achieve desired effects• Create detailed, labelled sketches or CAD plans showing Gothic style, structure and electrical and mechanical components• Accurately measure, cut, join and assemble materials to build a stable Gothic-themed model with working electrical and mechanical features				Food & Nutrition - Mix it up <i>How can we mix recipes to invent an exciting new food?</i>
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		<ul style="list-style-type: none">• Test and evaluate the model's function and appearance against design criteria, suggesting realistic improvements				
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