

St John's Church of England Primary School

Long Term Curriculum Map – Design & Technology

	Autumn 1	Design and Technology Autumn 2	Spring 1	Design and Technology Spring 2	Summer 1	Design and Technology Summer 2
		Technical Knowledge		Cooking and Nutrition		Technical Knowledge
Year 1		<u>Moving Pictures</u> Children will gain an understanding of mechanisms. Follow instructions to make different types of mechanisms and then create their moving picture. Children will evaluate their product.		<u>Dips and Dippers</u> Children will learn about good food hygiene rules and using kitchen equipment to prepare food safely. They will apply these skills and evaluate a product they make. Children will learn about the importance of eating a healthy and varied diet.		<u>Fabric Bunting</u> Children will learn about working with fabric. They will learn how to use a graphics program to create a design and template. Children will learn and use a simple running stitch. Finally, children will evaluate their product.
Year 2		<u>Pirate Paddy's Packed Lunch Problem</u> Children will be given the opportunity to develop their understanding of structures. They will follow criteria and create models from reclaimed materials. Children will gain a basic understanding about how structures can be made stronger, stiffer and more stable. Children test their product and suggest further improvements.		<u>Sensational Salads</u> Children will learn about peeling, zesting, cutting safely and apply these skills when preparing healthy dishes. Children will learn key information about healthy eating and where their food comes from. They will gain some practical ideas about ingredients that can be combined to make interesting and healthy salads.		<u>Our Fabric Faces</u> Children will learn about different fabrics. They will explore, choose and manipulate fabrics to create different effects and learn how to join fabrics in a variety of ways. Running stitch will be introduced during this unit. Finally, children will apply these skills to create their own fabric face which they will evaluate.
Year 3		<u>Juggling Balls</u> Children will explore and evaluate different juggling balls. The design brief will be to design and make a circus themed juggling ball. A hemming and overcast stitch will be introduced during this unit. Children will learn about decoration techniques. Finally, children will evaluate their product.		<u>Edible Gardens</u> Children to learn where and how a variety of ingredients are grown. They will learn how to plant seeds and care for their plants, and then how to cook with the ingredients they are growing; following recipes and using different equipment. They will learn about safety and hygiene rules.		<u>Let's Go Fly a Kite</u> Children will develop their understanding of frame structures and how they can be strengthened and stiffened. They will gain knowledge and understanding about the parts and shapes of kites. This will help them when designing and making their own kites. Finally, children will test and evaluate their kites.
Year 4		<u>Battery Operated Lights</u> Children will be given opportunities to enhance their knowledge and understanding of electrical systems. Children will develop understanding about series and parallel circuits and different types switches. They will apply their knowledge by designing and making a battery operated light controlled by a homemade switch. Children will decide upon the design criteria for the light by considering who, where and what questions.		<u>The Great Bread Bake Off</u> Children will learn about working with food. They will gain an insight into the history of bread production, then investigate and evaluate existing products. They will design, make and evaluate their own bread product, using a range of kitchen tools and measuring equipment. Children will learn how to knead dough correctly and the technique of proving bread.		<u>Mechanical Posters</u> Children will be given opportunities to develop their understanding of mechanical systems. They will follow instructions for making different types of lever and linkage mechanisms. Then design, make a prototype and create their 'Lever and Linkage Poster' using the context of recycling. Finally, children will evaluate their finished product.
Year 5		<u>Felt Phone Cases</u> Children will learn about how to write their own design criteria. They will design products with the user in mind thinking about aesthetics and		<u>Super Seasonal Cooking</u> Children will learn about the importance of buying seasonal food and where, when and how a variety of ingredients are grown, reared, caught and processed.		<u>Marbulous Structures</u> Children will be given opportunities to develop their understanding of more complex free standing structures and how they can be strengthened and



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Year 6	<p>functionality. Annotated designs will be used to communicate ideas as well as step by step plans. Children will learn how to make a paper template and how to sew a running stitch, backstitch, whip stitch and blanket stitch. Finally, children will learn how to write a detailed evaluation.</p>	<p>Children will then sample some spring seasonal food before designing their own balanced seasonal meal. They will learn how to cook following their own recipes, using a range of preparation and cooking techniques. Children will learn about hygiene rules for handling meat and fish and safe preparation skills. Finally, children will evaluate their product against their design criteria.</p>	<p>reinforced. Children will gain knowledge and understanding about how to join and shape materials. Children will apply these skills to create their marble runs. Finally, children will test and evaluate their marble runs against design criteria.</p>
	<p style="text-align: center;"><u>Automata Animals</u></p> <p>Children will be given opportunities to further develop their understanding of mechanical systems. They will learn about controlling movement. Use information sources to research ideas about animals and incorporate these into their designs. Children will extend and develop their cutting, shaping and joining skills and techniques by selecting the correct tools and equipment. Peer assessment is used to improve designs and evaluate final products.</p>	<p style="text-align: center;"><u>Global Food</u></p> <p>Children will be given the chance to discover the diverse choice of food available around the world. They will build on their understanding of the eat well plate, grouping ingredients into the correct food groups. Children will have the opportunity to learn some basic and advanced techniques and apply these skills when making some traditional dishes from different countries.</p>	<p style="text-align: center;"><u>Programming Adventures</u></p> <p>Children will apply their understanding of computing to program a floor robot. They research and explore a range of adventure maps and use these to create knowledge obstacle squares. Children will use appropriate joining methods to make a scale adventure map. They will test and evaluate the effectiveness of another group's obstacle squares.</p>
<p>DT focus Autumn Term 2, Spring Term 2 & Summer Term 1</p>			