

# Design and Technology

## Long Term Plan

Year Group	Autumn		Spring		Summer	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>EYFS</b>	<p>Design and Technology is embedded within the Early Years Foundation Stage Curriculum through the use of the learning environment and classroom provision. The children are given a wealth of opportunities to engage in activities, both child-initiated and adult-directed, which enable them to develop knowledge of materials, to construct with a purpose, to develop an understanding of nutrition and to use a range tools and equipment safely. During the children's time in Early Years Foundation Stage, the essential building blocks of Design and Technology capability are established.</p> <p>Design and Technology in the Early Years Foundation Stage is incorporated into all aspects of the curriculum. However, it can primarily be classified as part of 'Expressive Arts and Design', which includes the strand 'Exploring and using media and materials'. It can also be seen through 'Physical Development' within the strand 'Moving and Handling'.</p>					
<b>Year 1</b>		<b>Freestanding Structures</b> <i>Design and make a piece of playground equipment.</i>		<b>Cooking and Nutrition</b> <i>Preparing fruit and vegetables for street party            Bake a Victoria Sponge cupcakes OR Traditional Cream Tea</i>		<b>Mechanisms</b> <i>Sliders and levers            Design an animal that moves</i>
<b>Year 2</b>		<b>Mechanisms</b> <i>Wheels and axels – make a pit cart.</i>		<b>Cooking and Nutrition</b> <i>Bake a traditional dish from the UK or from the non-European Country</i>		<b>Textiles</b> <i>Sew a pair of mittens to keep your hands warm while exploring.</i>
<b>Year 3</b>		<b>Shell Structure</b> <i>Food container</i>		<b>Textiles</b> <i>Apron for Embalmer</i>		<b>Cooking and nutrition</b> <i>Healthy and varied diet Plan and make a healthy and balanced meal.</i>
<b>Year 4</b>		<b>Cooking and Nutrition</b> <i>Rough bread for Anglo Saxons then improve for modern traveller</i>		<b>Mechanical Systems</b> <i>Pneumatics            Make the jaw of a monster move without using your hands</i>		<b>Electrical Systems</b> <i>Simple circuits and switches            Design a reading light or night light for a person</i>
<b>Year 5</b>		<b>Food and Nutrition</b> <i>Create a savoury dish using chocolate or coco powder</i>		<b>Frame Structure</b> <i>Create a pop up tuck shop for the school (waterproof)</i>		<b>Electrical Systems</b> <i>LEGO            Signal system for a train</i>

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<b>Year 6</b>		<p style="text-align: center;"><b>Cooking and Nutrition</b></p> <p style="text-align: center;"><i>Create a meal using rations available with consideration to seasonality</i></p>		<p style="text-align: center;"><b>Textiles</b></p> <p style="text-align: center;"><i>Using recycled fabric to create a shopping bag</i></p>		<p style="text-align: center;"><b>Mechanical systems</b></p> <p style="text-align: center;"><i>Pulleys and gears</i></p> <p style="text-align: center;"><i>Design a fairground ride for the summer fair</i></p>
<b>As designers:</b>	<p>The children will be encouraged to be creative when designing and making their own products that solve real problems. They will be taught to take risks, to evaluate and improve their own products and use a variety of skills that will prepare them for the world of work.</p>					
<p><i>If you would like more information about the curriculum we offer at Brooke Primary Academy, then please contact the academy office.</i></p>						