

# Design and Technology

## Long Term Plan 2021-2022

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 ‘Creating with Materials’.</p> <p>It can also be seen through ‘Physical Development’ within the strand ‘Fine Motor Skills’.</p>					
<b>Year 1</b>		<p><b>Freestanding Structures</b> <i>Design and make a piece of playground equipment.</i> Link: Geog School in the locality, Science-(materials)</p>		<p><b>Cooking and Nutrition</b> <i>Preparing fruit and vegetables for a street party</i> <i>Bake Fruit Vol-au-vents</i> Link: History (Royal Family)</p>		<p><b>Mechanisms</b> <i>Sliders and levers</i> <i>Design an animal that moves</i> Link: Science (animals)</p>
<b>Year 2</b>		<p><b>Mechanisms</b> <i>Wheels and axels – make a pit cart.</i> Link: History/ Geog (coal mine)</p>		<p><b>Cooking and Nutrition</b> <i>Bake a traditional dish from the UK or from the non-European Country</i> Link: Local Geog</p>		<p><b>Textiles</b> <i>Sew a pair of mittens to keep your hands warm while exploring.</i> Link: Geog (Hot &amp; cold places), History- (Explorers) Science-(materials)</p>
<b>Year 3</b>		<p><b>Mechanisms</b> <i>Pop-up fact book</i> Link: History (stone age)</p>		<p><b>Textiles</b> <i>Apron for Embalmer</i> Link: History</p>		<p><b>Cooking and nutrition</b> <i>Healthy and varied diet Plan and make a healthy and balanced meal.</i> Link: Science (Nutrition) His – Roman banquet</p>
<b>Year 4</b>		<p><b>Structures</b> <i>Shell structure to store trinkets</i> Link: History (Anglo Saxons)</p>		<p><b>Mechanical Systems</b> <i>Pneumatics</i> <i>Make the jaw of an animal/ monster move without using your hands</i> Link: Science (Teeth &amp; Eating)</p>		<p><b>Electrical Systems</b> <i>Simple circuits and switches</i> <i>Design a reading light or night light for a person</i> Link: Science (light)</p>

<b>Year 5</b>		<p style="text-align: center;"><b>Food and Nutrition</b></p> <p style="text-align: center;"><i>Create a savoury dish using chocolate or coco powder</i></p> <p style="text-align: center;">Link to history - Mayans</p>		<p style="text-align: center;"><b>Frame Structure</b></p> <p style="text-align: center;"><i>Create a pop up tuck shop for the school (waterproof)</i></p> <p style="text-align: center;">Link: Geog - changes in weather</p>		<p style="text-align: center;"><b>Electrical Systems</b></p> <p style="text-align: center;">LEGO</p> <p style="text-align: center;"><i>Signal system for a train</i></p> <p style="text-align: center;">Link: History</p>
<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;">NC: History (WWII)</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;">Link: Science (Materials and Changing of materials)</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> <p style="text-align: center;">Link: DT</p>
<b>As designers:</b>	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><i>If you would like more information about the curriculum we offer at Brooke Primary Academy, then please contact the academy office.</i></p>						