

# Britannia Bridge DT Long Term Plan 2023/24

Class	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
N3 Caterpillars	All about me	Celebrations	Down in the woods	Heroes and villains	Amazing animals	Under the sea
	<p>Continuous coverage throughout the year of DT skills through Expressive arts and Design- Creating with materials, Physical development- Fine motor and Understanding the World- The Natural World.</p> <p><b>Food and Nutrition</b> - the children will make healthy choices about food and drink. They will use a spoon with good control and begin to use a knife and fork. ( Physical Development- fine motor)</p> <p><b>Textiles</b>- The children will freely explore a range of media and materials developing their own ideas of what to make. They develop their own ideas then decide what they need to make it. ( Expressive arts and design- Creating with materials)</p> <p><b>Structures</b> - The children will develop their own ideas then decide what they need to make it. ( Expressive arts and design- Creating with materials)</p> <p><b>Mechanisms</b> - The children will explore and talk about forces - push and pull. They will develop their own ideas then decide what they need to make it. (Understanding the World- The Natural World)</p>					
Reception Butterflies	What makes me special?	Celebrations	The World around us	Growing	Houses and homes	Fantasy
	<p>Continuous coverage throughout the year of DT skills through Expressive arts and Design- Creating with materials, Physical development- Fine motor and Understanding the World- The Natural World.</p> <p><b>Food and Nutrition</b> - the children will know and talk about different factors that support their health and wellbeing e.g. exercise, teeth brushing, healthy food and good sleep. They will use a knife, fork and spoon independently ( Physical Development- fine motor)</p> <p><b>Textiles</b>- The children confidently join and assemble materials in different ways. They discuss and design what they want to make using their own ideas and what materials they could use. (Expressive arts and design- Creating with materials)</p> <p><b>Structures</b>- The children discuss and design what they want to make using their own ideas and what materials they could use. ( Expressive arts and design- Creating with materials)</p> <p><b>Mechanisms</b> -children will explore a wider range of forces, such as magnetism, gravity as well as push and pull. They will discuss and design what they want to make using their own ideas and what materials they could use. (Understanding the World- The Natural World)</p>					
Year 1 Bumblebees	<p><b>Moving mini beasts</b> <b>Mechanisms</b></p> <p>The children will explore how to construct a sliding mechanism, a lever and pivot mechanism, and a wheel mechanism, to design and make a moving minibeast picture for an author who is writing a book about minibeasts!</p>		<p><b>Stable structures</b> <b>Structures</b></p> <p>The children will explore what makes a stable structure. They will look at wooden toy garages. They will think about what materials they can use to design and make a stable structure of their own.</p>		<p><b>Eat more fruit and vegetables</b> <b>Food &amp; Nutrition</b></p> <p>The children will find out about healthy eating and design and make smoothies and salads.</p>	
Year 2 Seahorses		<p><b>Perfect Pizzas</b> <b>Food &amp; Nutrition</b></p> <p>The children will develop the skills and techniques of cutting, peeling and grating and think about a balanced diet when they design, make and evaluate a pizza.</p>		<p><b>Vehicles</b> <b>Mechanisms</b></p> <p>The children will explore wheels, axles and chassis to design, make and evaluate their own moving vehicle</p>		<p><b>Puppets</b> <b>Textiles</b></p> <p>The children will work with fabric to create finger puppets and practise their sewing skills. They will then design, make and evaluate their own glove puppet made from felt and use running stitch to join.</p>

<p><b>Year 3</b> <b>Hummingbirds</b></p>	<p><b>Story books</b> <b>Mechanisms</b> Children will have the chance to explore moving parts in a variety of storybooks and learn how to recreate some of these moving parts using a variety of tools and techniques before investigating different types of fonts and graphics. They will design, create and evaluate their very own moving storybooks</p>		<p><b>British Inventors</b> <b>Structures/Inventions and achievements</b> The children will find out about some important Victorian inventions and more recent 20th century inventions created by British inventors and scientists. They will discover how inventions have changed the lives of the people who use them. The children will undertake activities where they will design and evaluate products to solve problems and have the opportunity to reinforce materials in a variety of ways, inspired by Famous scientists and their inventions.</p>		<p><b>Light up signs</b> <b>Programming and electrical</b> The children will research, design and make light boxes and fit them with either electronic components such as bulbs and batteries, or small LED's.</p>	
<p><b>Year 4</b> <b>Dragonflies</b></p>		<p><b>Seasonal Stockings</b> <b>Textiles</b> The children will explore and use running stitch, overstitch and zig zag stitch. They will embroider shapes and patterns and use applique to add decoration. They will design, make and evaluate their own seasonal stocking.</p>		<p><b>Seasonal food</b> <b>Food &amp; Nutrition</b> The children will practise cooking skills such as slicing, dicing, beating, whisking, folding, sieving, rolling and grating to follow different recipes. They will find out about seasonal foods and use this knowledge to design, make and evaluate a healthy meal.</p>		<p><b>Mini Greenhouses</b> <b>Structures</b> Children will find out the purpose of a greenhouse and how it works, before moving on to exploring how structures like these can be made stable, and what materials would be the most appropriate to use. Children then apply this knowledge and understanding when designing, making and evaluating their very own mini greenhouse.</p>
<p><b>Year 5</b> <b>Owls</b></p>	<p><b>Bridges</b> <b>Structures</b> The children will construct and explore the different types of bridges and what makes them strong. They will then design, make and evaluate their own bridge and test its strength</p>		<p><b>Moving Toys</b> <b>Mechanisms</b> The children will use cam mechanisms to design, make and evaluate a variety of stable moving toys</p>		<p><b>Fashion and textiles</b> <b>Textiles</b> The children will explore how textiles are used in the fashion industry and practise sewing a basting stitch, whip stitch, back stitch. They will sew a hem and design, make and evaluate their own drawstring bags..</p>	
<p><b>Year 6</b> <b>Sharks</b></p>		<p><b>Burgers</b> <b>Food &amp; Nutrition</b> The children will independently and confidently use the cooking skills such as slicing, dicing, beating, whisking, folding, sieving, rolling and grating. They will look at nutrition</p>		<p><b>Programming Pioneers</b> <b>Programming and electrical /Inventions and achievements</b> Children will focus on designing, developing, testing and prototyping computer-controlled electronic</p>		<p><b>Bird Houses</b> <b>Structures</b> Children will will research, design and make a bird box suitable for a specific bird. Using skills such as drawing 3-D diagrams and exploded diagrams, reading and measuring dimensions,</p>

		<p>labels and help make informed healthy food choices. They will explore adding seasonings/spices to bread dough and burgers to create new and interesting flavours. They will design, make and evaluate their own meat/meat free burger.</p>		<p>systems for rooms such as motion-sensor activated alarms, door buzzer entry systems and light sensors. They will also learn all about influential computer scientists through history who have shaped the world around us.</p>		<p>planning and designing products to suit requirements, and using woodwork skills and tools.</p>
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