

Design and Technology Long Term Overview Year A



	EYFS	Year 1 and 2	Year 3 and 4	Year 5 and 6
Autumn Mechanisms	<p>The premise of this whole school project is to ensure every child makes an item to promote sports at a pop-up shop within our local town. Every item should be useable or possible to play with. The work will be displayed in a local gallery.</p> <p style="text-align: center;">All lessons follow the DT format of research - design - make - evaluate.</p>			
	<p>Mechanisms are explored through toys such as vehicles, pushchairs, small world characters with moveable limbs. Later in the summer term, under the topic of 'Superheroes', children will use split pins to create a moving person.</p>	<p>Using wheels, axels and a chassis, children design a wheelchair for the paralympic team.</p>	<p>Children design and make a lever toy to illustrate a sports manoeuvre.</p>	<p>Children use cams to create a moving toy with a sports theme.</p>
Spring Textiles	<p>The premise of this whole school project is to ensure every child makes an item to sell for a Valentines pop up shop. Every item is based on a valentines theme, working to a purpose and exploring stitching and joining techniques. The children then display their items for sale at a pop up shop, making money for our school resources.</p>			

	All lessons follow the DT format of research - design - make - evaluate.						
	Textiles are explored through creating a pocket to hold a Valentines sweet.	Children to make a functional pencil topper using running and blanket stitch. Children explore embellishment to make their design distinctive.	Creand to create a hanging sweet basket, embellished with a Suffolk Puff. Joining techniques should be varied with a range of stitches and a lining of two different fabric types should be used.	Children to create a basket using a net pattern. A wide variety of stitches and embellishment should be used, in addition to stiffening and bondaweb to enhance functionality. The basket should hold a range of Valentines items.			
Summer Food and Hygiene	The premise of this whole school project is to ensure every child explores the properties, preparation and design of a food product around the theme of a local apple variety.						
	All lessons follow the DT format of research - design - make - evaluate.						
Explore a range of healthy snacks, including apple flavours and varieties.	Design and make fruit kebabs with a dipping sauce.	Explore a range of familiar and less familiar vegetables that would go into a salad to combine with apple, including a salad dressing.	Design and make a health sandwich with an apple based filling.	Create and adapt a healthy flapjack recipe using apple.	Design and make an apple based smooth including at least one vegetable.	Design and prepare a pastry based savoury dish, combining a range of flavours with apple.	

Design and Technology Long Term Overview Year B

	EYFS	Year 1 and 2	Year 3 and 4	Year 5 and 6
Autumn Electronics	<p>The premise for this project is to create an electronic product to sell at our Christmas Fayre. Children will make a circuits to enhance their product with a Christmas theme. All lessons follow the DT format of research - design - make - evaluate.</p>			
			<p>Children will design and make simple circuits and switches for a light up christmas card to sell at our Christmas pop up shop</p>	<p>Children will design and make a more complex circuit and switch system by creating a toy motorised car.</p>
Spring Structures	<p>This whole school project is developed with the idea of becoming a designer or architect to respond to the significance of tourism to the Isle of Wight. Children will generate, develop and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes and computer-aided design. They then make their designs, using the appropriate tools and materials.</p>			

	<p>Design and make a freestanding structure of a bat box</p> <p>Visit from The Isle of Wight Bat Group</p>	<p>Design and make freestanding structure of a red squirrel box, considering the design brief carefully to meet the needs of our red squirrels.</p> <p>Visit from the IOW Squirrel Trust</p>	<p>Children create a shell structure using nets, creating packaging to promote/store a gift box for Alum Bay sands</p> <p>Visit from Gavin Jones @PatterWood</p>	<p>Create a design for a bridge from the Island to the mainland that can withstand winds and storms due to its exposed location.</p> <p>Visit from local Architect, Keetan Daish</p>			
<p>Summer Food and Hygiene</p>	<p>The premise of this whole school project is to explore the produce of the Isle of Wight, with the particular focus on the Garlic Farm/Garlic Festival and the range of produce made from this Isle of Wight resource. Links will be made to the local economy and those who work in it (including farming/chefs/retail/product designers) before designing and making food using garlic as a key ingredient.</p> <p>All lessons follow the DT format of research - design - make - evaluate.</p>						
	<p>Explore a range of healthy snacks and garlic flavours.</p>	<p>Design and make a salsa to top a bruschetta, including garlic flavours.</p>	<p>Explore a range of familiar and less familiar vegetables that would go into a salad to combine with a garlic dressing and topping.</p>	<p>Prepare a healthy and balanced sandwich with garlic chutneys and pickles. Consider a combination of healthy fillings, including protein and fruit/vegetables.</p>	<p>Design and make a sweet or savoury garlic bread</p>	<p>Design and make a healthy smoothie recipe, that includes black garlic.</p>	<p>Design and prepare a balanced garlic based pastry, including a range of flavour combinations to compliment the garlic flavour.</p>