



	EYFS	Year 1 and 2	Year 3 and 4	Year 5 and 6
Autumn Mechanisms	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. All lessons follow the DT format of research - design - make - evaluate.			
	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.	Using wheels, axels and a chassis, children design a wheelchair for the Paralympic team.	Children design and make a lever toy to illustrate a sports manoeuvre.	Children use cams to create a moving toy with a sports theme.
Spring Textiles	The premise of this whole school project is to ensure every child makes an item to sell at 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. 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 flower themed collage from recycled materials where the colour corresponds to what it represents e.g. green for the leaves Children to create a tree design. Children can sew an overstitch using a guide and then move to fabric.	Children to create a daisy. Children to create a felt flower and use attached features on their final pieces such as buttons etc Children to create a sunflower. Children can practise a stitched hem.	Children to create a bunch of flowers. Children can create a square patch of material with an embroidery design. Children can make their final piece of a leaf design using materials of their choice. Children can use more than one stitching technique for their chosen final design.
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 for a class picnic – The Mad Hatter's Tea Party! All lessons follow the DT format of research - design - make - evaluate.			
	Make a Smoothie	Design, prepare and cut a range of vegetables to make a healthy salad and a dressing	Create and adapt a healthy flapjack recipe.	Design and prepare a balanced picnic meal, including carbohydrates, fats, fruit and vegetables, protein and sugars.

Design and Technology Long Term Overview Year B



	EYFS	Year 1 and 2	Year 3 and 4	Year 5 and 6
Autumn Structures	This whole school project is developed with the idea of becoming a designer and architect to respond to the Isle of Wight status of biosphere! Children have a designers and creators day, where they start by generating, developing and communicating their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. They then make their designs, using the appropriate tools and materials. All lessons follow the DT format of research - design - make - evaluate.			
	Construction skills are developed with the small and large scale construction materials within the continuous provision, and design sheets are available for children to express their creations symbolically.	Design and make freestanding structure of a bug hotel.	Children create a shell structure using nets, creating packaging to promote/store an animal related product.	Create a design for a new bird hide in Newtown, that can withstand high winds and storms due to its exposed location.
Spring Electronics/structures	The premise for this project is 'Can you improve our school?', with children creating electronic systems that will have a direct impact on their environment. All lessons follow the DT format of research - design - make - evaluate.			
	STRUCTURES - Can you build a tall structure? A tall structure?	STRUCTURES - Children design a freestanding structure for a new piece of playground equipment.	ELECTRONICS - Children will design and make simple circuits and switches	ELECTRONICS - Children will design and make a more complex circuit and switch system by creating a new alarm system for the school sports shed.
Summer Food and Hygiene	The premise of this whole school project is to explore a diverse range of cultures through street food. All lessons follow the DT format of research - design - make - evaluate.			
	Explore, taste, describe and make a fruit based salad.	Design and prepare an exotic fruit kebab.	Design and make pitta pockets with a spiced filling.	Design and make a pizza, that can be sliced and packaged to be sold at a street venue

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