

Long Term Plan for DT 2023-24

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Reception	<p><u>Me and my community:</u> -Emergency Vehicles</p> <p>This project allows children to explore, build and play with a range of resources and construction kits with wheels and axles.</p>	<p><u>Starry Night:</u> -Make a cuddle pet -Rocket Builders -Moon Buggies</p> <p>This project teaches the children to select appropriate materials when constructing and making. They will construct simple structures and models using a range of materials. They will explore, build and play with a range of resources and construction kits with wheels and axles.</p>	<p><u>Once upon a time:</u> -Building Bridges -Fantasy Homes</p> <p>This project allows the children to construct simple structures and models using a range of materials. They will explore and create using a wide variety of materials and components, including upcycled materials, construction kits, textiles and ingredients.</p>	<p><u>Dangerous Dinosaurs:</u> -Build a dinosaur -Frozen in Time</p> <p>This project Teaches the children to create collaboratively, share ideas and use a variety of resources to make products inspired by existing products, stories or their own ideas. They will observe how activities are going and adapt their ideas if necessary. They will share their creations with others, explaining their intentions and the techniques and tools they used. They will safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.</p>	<p><u>Ready steady grow:</u> -Tractor Trouble -Seed shakers</p> <p>This project teaches the children to explore, build and play with a range of resources and construction kits with wheels and axles. They will learn to recognise that it is possible to change and alter their designs and ideas as they are making them.</p>	<p><u>On the Beach:</u> -Boat Builders</p> <p>This project teaches the children to explore and create using a wide range of materials and components, including upcycled materials, construction kits, textiles and ingredients.</p>
Year 1		<p><u>Taxi</u> This project teaches children about wheels, axles and chassis and how they work together to make a vehicle move.</p>		<p><u>Shade and Shelter</u> This project teaches children about the purpose of shelters and their materials. They name and describe shelters and design and make shelter prototypes. Children then design and build a play den as a</p>	<p><u>Chop, slice and mash</u> This project teaches children about sources of food and the preparatory skills of peeling, tearing, slicing, chopping, mashing and grating. They use this knowledge and techniques to design and make a supermarket</p>	

				group and evaluate their completed product.	sandwich according to specific design criteria.	
Year 2			Beach hut This project teaches children about making and strengthening structures, including different ways of joining materials.	Push and Pull This project teaches children about three types of mechanism: sliders, levers and linkages. They make models of each mechanism before designing and making a greetings card with a moving part.		Remarkable Recipes This project teaches children about sources of food and tools used for food preparation. They also discover why some foods are cooked and learn to read a simple recipe. The children choose and make a new school meal that fulfils specific design criteria.
Year 3		<u>Earthquake proof structures</u> Take part in a structures challenge to see who can build the best earthquake-proof tower or shelter. Work in teams to select materials and decide upon the design and construction methods using blocks, bricks, newspaper, card and wood. Consider how they might test the strength of their structures and how they will make the testing process fair. Take photographs as they work to document the process		<u>Cook well eat well</u> This project teaches children about food groups and the Eatwell guide. They learn about methods of cooking and explore these by cooking potatoes and ratatouille. The children choose and make a taco filling according to specific design criteria.		<u>Making it move</u> This project teaches children about cam mechanisms. They experiment with different shaped cams before designing, making and evaluating a child's automaton toy.
Year 4		<u>Tomb Builders</u> This project teaches children about simple machines, including wheels, axles, inclined planes, pulleys and levers, exploring how they helped ancient		<u>Fresh food, good food</u> (Develop 1 – structures) This project teaches children about structures of packaging. They discover key inventions in food		<u>Fresh food, good food</u> (Develop 1 – food technology) This project teaches children about food decay and preservation. The

		builders to lift and move heavy loads.		preservation and packaging, then make examples.		children prepare, package and evaluate a healthy snack.
Year 5		<u>Eat the Seasons</u> This project teaches children about the meaning and benefits of seasonal eating, including food preparation and cooking techniques.	<u>Architecture</u> This project teaches children about how architectural style and technology has developed over time and then use this knowledge to design a building with specific features.		<u>Moving Mechanisms</u> This project teaches children about pneumatic systems. They experiment with pneumatics before designing, making and evaluating a pneumatic machine that performs a useful function.	
Year 6	<u>Natural Disasters</u> <u>Building an Erupting Volcano</u> This project teaches children how to apply their understanding of how to strengthen, stiffen and reinforce more complex structures. Select from and use a wider range of materials and components, including construction materials and, textiles according to their functional properties and aesthetic qualities. Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. Evaluate their ideas and products against their own design criteria and consider the	<u>A Child's War – WW1</u> <u>Rationing Cooking</u> This project teaches children about how to prepare and cook dishes using a range of cooking techniques as well as understanding and applying the principles of a healthy and varied diet.				<u>Make Do and Mend</u> This project teaches children a range of simple sewing stitches, including ways of recycling and repurposing old clothes and materials. <u>Tomorrows World</u> This project teaches children about modern communication, including how to build a website, e-safety and the movers and shakers in the world of technology.

	views of others to improve their work.					
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