



Long Term Plan: Design and Technology

Cycle B: 2025 - 2026

	Autumn 2025		Spring 2026		Summer 2026	
Reception	Let's Explore	Marvellous Machines	Long Ago	Ready, Steady, Grow	Animal Safari	On the Beach
Year 1 & Year 2	<p>Toy Taxi</p> <p>Children will learn how to use the mechanical system of using wheels and axels to create a push buggy. They will apply this knowledge to build a taxi buggy for their favourite to be used to carry it across the classroom floor.</p>		<p>Puppets</p> <p>Children will learn how to combine different textiles using a range of textiles and apply this knowledge to create a hand puppet based on a character from a favourite story in their classroom library.</p>		<p>Salads Fit For a King</p> <p>Children will learn about different types of fruit and vegetables that can be used in a salad. They will use this knowledge to create their own salad recipes that uses food from around the Commonwealth.</p>	
Year 3 & Year 4	<p>Cleopatra Cushions</p> <p>Children will learn how to create textile cushions and a range of different techniques to decorate them. They will apply this knowledge to create an Egyptian-inspired cushion to sell in our local craft shop.</p>		<p>Interactive Volcano</p> <p>Children will apply their knowledge of electrical circuits to create an interactive display for visitors to our school which demonstrates how lava is created and flows during a volcanic eruption.</p>		<p>Seasonal Tarts</p> <p>Children will visit the local market in Applegarth to learn which fruits are available in summer and are produced locally and which are imported. They will use this knowledge to create a summer fruit tart (or flan).</p>	
Year 5 & Year 6	<p>Tasty Taco Treats</p> <p>Children will learn how to make a taco and apply their knowledge about healthy eating and different diets and tastes to create mini taco bites to sell at the school fayre.</p>		<p>Terrific Tote Bags</p> <p>Children will learn how to combine different textiles using a range of techniques to create a tote bag with pockets and pouches. They will decorate their bag according to a chosen theme.</p>		<p>Robot Harvester</p> <p>Children will learn how to create a four-wheeled buggy that is programmed to follow a specific route and is modelled to show how this could be used during harvesting by local farmers.</p>	



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Cycle A: 2026 - 2027

		Autumn 2026		Spring 2027		Summer 2027			
Reception N	Imaginative Learning Project	Let's Explore	Marvellous Machines	Long Ago	Ready, Steady, Grow	Animal Safari	On the Beach		
		Year 1 & Year 2		<p>Celebration Card</p> <p>Children will learn about a range of different simple mechanisms to create pop-up cards. They apply this knowledge to create a celebration pop-up card themed to a celebration of the life of a 'mover and shaker' they have learned about in history.</p>		<p>Forest Playground</p> <p>Children will learn about the purpose of structures and use their knowledge of properties of materials, shell structures and creating frameworks to create a model shelter or piece of equipment for the school forest area.</p>		<p>Super Summer Smoothie</p> <p>Children will learn how to make a recipe for creating a fruit smoothie. They will use this knowledge and adapt the receipt to create a fruit smoothie for a friend based on their favourite summer fruits.</p>	
		Year 3 & Year 4		<p>Harvest Loaf</p> <p>Children will learn about seasonal food and the role of the harvest to gather food that has been grown at the end of a season. They will learn a simple bread recipe that they can adapt to create a decorated harvest loaf.</p>		<p>Fantastic Photo Frames</p> <p>Children will learn how a simply wooden frame structure is used to create a free-standing photo frame. They will use this knowledge to create a themed, decorated photo frame to celebrate the natural beauty of North Yorkshire.</p>		<p>Pop-Up Book Page</p> <p>Children will build on their knowledge of simply mechanisms to create a book page about the Roman invasion of Britain. The page will contain a range of mechanisms designed to stimulate interest in reading about the Romans.</p>	
		Year 5 & Year 6		<p>Greek Yoghurt</p> <p>Children will apply their knowledge of how to make yoghurt and how to adapt a basic food recipe to created a yoghurt based on the foods and traditions of Greece.</p>		<p>Automaton</p> <p>Children will learn about a range of mechanical systems and apply this knowledge to create an automaton toy that is based on animals found in the Arctic or Antarctic.</p>		<p>Superhero Nightlight</p> <p>Children will use their knowledge of material and structures to create a stand-up superhero figure. Applying their knowledge of electrical and computer systems, they will make the figure light up when it gets dark.</p>	