



STEM (Science and Design & Technology) – Subject Overview 2024-25

Long Term Overview

	1	2	3	4	5	6
Nursery	<p>Where do I belong?</p>	<p>Once upon a time</p> <p>(natural materials, senses)</p>	<p>Where in the world?</p> <p>(materials)</p>	<p>All creatures great and small</p> <p>(life cycles, living things)</p>	<p>Growing and farms</p> <p>(plants)</p>	<p>Do you like to be beside the seaside?</p> <p>(materials, senses)</p>
Reception	<p>Where do I belong?</p> <p>(recycling, soup-making, Autumn)</p>	<p>Once upon a time</p> <p>(Baking)</p>	<p>Where in the world?</p> <p>(Winter, melting ice)</p>	<p>All creatures great and small</p> <p>(minibeasts, animals, habitats, life cycles)</p>	<p>Growing and farms</p> <p>(food, plating, bread, healthy food, farms)</p>	<p>Do you like to be beside the seaside?</p> <p>(sea creatures, floating and sinking)</p>
Year 1	<p>Science - Materials: Everyday materials</p>	<p>Science - Forces and space: Seasonal changes</p>	<p>Science - Animals: Sensitive bodies</p>	<p>Science - Plants: Introduction to plants</p>		<p>Science - Animals: Comparing animals</p>
	<p>DT - Textiles: Puppets</p>			<p>DT - Cooking & nutrition: Fruit and vegetables</p>	<p>DT - Mechanisms: Wheels and axels</p>	
			<p>DT - Mechanisms: Making a moving monster</p>		<p>DT - Cooking and nutrition: A balanced diet</p>	<p>DT - Textiles: Pouches</p>
Year 2	<p>Science - Living things: Habitats</p>	<p>Science - Living things: Microhabitats</p>		<p>Science - Animals: Life cycles and health</p>	<p>Science - Materials: Uses of everyday materials</p>	<p>Science - Plants: Plant growth</p>
			<p>DT - Mechanisms: Making a moving monster</p>	<p>DT - Cooking and nutrition: A balanced diet</p>		<p>DT - Textiles: Pouches</p>

Year 3 / 4 (Cycle A)	Science - Animals: Digestion and food	Science - Materials: States of matter	Science - Energy: Electricity and circuits	Science - Living things: Classification and changing habitats		Science - Energy: Sound and vibrations
	DT- Cooking & Nutrition: Eating Seasonally		DT – Electrical Systems: Torches		DT- Textiles: Cushions and Fastenings	
Year 3 / 4 (Cycle B)	Science - Animals: Movement and nutrition	Science - Energy: Light & shadows	Science - Materials: Rocks and soils	Science - Forces and space: Forces and magnets	Science - Plants: plant reproduction	
				DT - Mechanical Systems: Pneumatic Toys		DT - Stiffening Structures: Constructing a Castle
Year 5 / 6 (Cycle B)		Science - Forces and space: Earth & Space	Science - Forces and space: Imbalanced Forces	Science - Materials: properties & changes / Mixtures and separation	Science - Living things: Life cycles and reproduction	Science - Animals: Human timeline
	DT – Stiffening Structures: Bridges		DT – Mechanical Systems: Pop-up Book			DT – Cooking & Nutrition: What could be healthier?
Year 5 / 6 (Cycle A)	Science - Living things: Classifying big and small	Science - Living things: Evolution and inheritance	Science - Animals: Circulation and exercise		Science – Energy: Light and reflection	Science – Energy: Circuits, batteries and switches
				DT – Mechanical systems: Automata toys		DT – Electrical Systems: Steady hand games

Design & Technology Subject Overview (by key area)

	Cooking & nutrition	Mechanical systems	Structures	Textiles	Electrical systems
Year 1	DT - Cooking & nutrition: Fruit and vegetables	DT - Mechanisms: Wheels and axels		DT - Textiles: Puppets	
Year 2	DT - Cooking and nutrition: A balanced diet	DT - Mechanisms: Making a moving monster 		DT - Textiles: Pouches	
Year 3 / 4 Cycle A	DT- Cooking & Nutrition: Eating Seasonally 			DT- Textiles: Cushions and Fastenings	DT – Electrical Systems: Torches
Year 3 / 4 Cycle B		DT - Mechanical Systems: Pneumatic Toys	DT - Stiffening Structures: Constructing a Castle		
Year 5 / 6 Cycle A	DT – Cooking & Nutrition: What could be healthier	DT – Mechanical Systems: Pop-up Book	DT – Stiffening Structures: Bridges		
Year 5 / 6 Cycle B		DT – Mechanical systems: Automata toys			DT – Electrical Systems: Steady hand games 