




## STEM (Science and Design & Technology) – Subject Overview

### 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><b>Science - Materials:</b> Everyday materials</p>	<p><b>Science - Forces and space:</b> Seasonal changes</p>	<p><b>Science - Animals:</b> Sensitive bodies</p>	<p><b>Science - Plants:</b> Introduction to plants</p>		<p><b>Science - Animals:</b> Comparing animals</p>
	<p><b>DT - Textiles:</b> Puppets</p>			<p><b>DT - Cooking &amp; nutrition:</b> Fruit and vegetables</p>	<p><b>DT - Mechanisms:</b> Wheels and axels</p>	
Year 2 (23-24 only)	<p><b>Science - Living things:</b> Microhabitats</p>	<p><b>Science - Forces and space:</b> Seasonal changes</p>		<p><b>Science - Animals:</b> Life cycles and health</p>		
			<p><b>DT - Mechanisms:</b> Making a moving monster</p>		<p><b>DT - Cooking and nutrition:</b> A balanced diet</p>	<p><b>DT - Textiles:</b> Pouches</p>
Year 2 (24-25 on)	<p><b>Science - Living things:</b> Habitats</p>	<p><b>Science - Living things:</b> Microhabitats</p>		<p><b>Science - Animals:</b> Life cycles and health</p>	<p><b>Science - Materials:</b> Uses of everyday materials</p>	<p><b>Science - Plants:</b> Plant growth</p>
			<p><b>DT - Mechanisms:</b> Making a moving monster</p>	<p><b>DT - Cooking and nutrition:</b> A balanced diet</p>		<p><b>DT - Textiles:</b> Pouches</p>

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

## Design & Technology Subject Overview (by key area)

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