



## DESIGN AND TECHNOLOGY LONG TERM PLAN



	AUTUMN 2	SPRING 2	SUMMER 2
NURSERY	<ul style="list-style-type: none"><li>• Notices and becomes interested in the transformative effect of their action on materials and resources.</li><li>• Begin to explore different materials and tools</li></ul>	<ul style="list-style-type: none"><li>• Experiments with ways to enclose a space, create shapes and represent actions, sounds and objects.</li><li>• Use 3D and 2D structures to explore materials and/or to express ideas</li></ul>	<ul style="list-style-type: none"><li>• Make simple models which express ideas.</li><li>• Use various construction materials e.g. joining pieces, stacking vertically and horizontally, balancing, making enclosures and creating spaces.</li><li>• Use tools for a purpose</li></ul>
RECEPTION	<ul style="list-style-type: none"><li>• Use various construction materials, e.g. joining pieces, stacking vertically.</li><li>• Safely use and explore a variety of materials, tools and techniques for a purpose, experimenting with colour, design, texture, form and function horizontally, balancing, making enclosures and creating spaces.</li></ul>	<ul style="list-style-type: none"><li>• Use increasing knowledge and understanding of tools and materials to explore their interest and enquires to develop interest.</li><li>• Develops their own ideas through experimentation with diverse materials, e.g. light, projected image, loose parts, watercolours, powder paint, to express and communicate their discoveries and understanding</li></ul>	<ul style="list-style-type: none"><li>• Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.</li><li>• Share their creations, explaining the process they have used.</li><li>• Use basic food handling, hygiene practices and personal hygiene</li></ul>
YEAR 1	<b>Food</b> Preparing fruit or vegetables (including cooking and nutrition requirements for KS1)	<b>Mechanisms</b> Slides and levers	<b>Structures</b> Free standing structures
YEAR 2	<b>Mechanisms</b> wheels and axels	<b>Food</b> Preparing fruit and vegetables (including cooking and nutrition requirements for KS1)	<b>Textiles</b> Templates and joining techniques

YEAR 3	<b>Structures</b> Shell structures	<b>Textiles</b> 2D shape to 3D product	<b>Food</b> Healthy and varied diet (including cooking and nutrition requirements for KS2)
YEAR 4	<b>Mechanical Systems</b> Levers and linkages	<b>Food</b> Healthy and varied diet (including cooking and nutrition requirements for KS2)	<b>Electrical Systems</b> Simple circuits and switches (including programming and control)
YEAR 5	<b>Food</b> Celebrating culture and seasonality (including cooking and nutrition requirements for KS2)	<b>Mechanical systems</b> Cams	<b>Structures</b> Frame structures
YEAR 6	<b>Textiles</b> Combining different textile shapes (including computer aided design)	<b>Food</b> Celebrating culture and seasonality (including cooking and nutrition requirements for KS2)	<b>Electrical systems</b> More complex switches and circuits (including programming, monitoring and control)