



DESIGN AND TECHNOLOGY LONG TERM PLAN



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

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