



Long Term Curriculum Overview 2021-2022

Subject: Design Technology

'We create a nurturing environment which both inspires and challenges our whole school family, equipping our children to have high aspirations to: 'Dream big, love God and live well.'

EYFS	3 & 4-year-olds will be learning to:		Children in Reception will be learning to:		ELG:	
Expressive Arts and Design	<ul style="list-style-type: none">Explore different materials freely, in order to develop their ideas about how to use them and what to make.Develop their own ideas and then decide which materials to use to express them. Join different materials and explore different textures.		<ul style="list-style-type: none">Explore, use and refine to express their ideasReturn to and build on their previous learning, refining ideas and developing their ability to represent them.Create collaboratively, sharing ideas, resources and skills.		<u>Creating with Materials</u> <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.	
Understanding the world	<ul style="list-style-type: none">Explore how things work.Talk about the differences between materials		<ul style="list-style-type: none">Explore the natural world around them		<u>The Natural World</u> Explore the natural world around them, making observations	
Characteristics of Effective Learning	<u>Engagement: Playing and Exploring</u> <ul style="list-style-type: none">Finding out and explore: showing curiosity about objects, engaging in an open-ended activity, showing particular interestsPlaying with what they know: Pretending objects are things from their experiences, representing their experiences in playBeing willing to ‘have a go’: initiating activities, seeking challenge, showing a ‘can do’ attitude, take a risk, engaging in new experiences, learning by trial and error					
	<u>Motivation: Active Learning</u> <ul style="list-style-type: none">Being involved and concentrating: maintaining focus on their activity for a period of time, showing high levels of energy and fascination, not easily distracted, paying attention to detailsKeep on trying: persisting with activity when challenges occur, showing a belief that more effort or a different approach will pay off, bouncing back after difficultiesEnjoying achieving what they set out to do: showing satisfaction in meeting their own goals, being proud of how they accomplished something, enjoying meeting challenges for their own sake rather than external rewards or praise					
	<u>Thinking: Creative and critical thinking</u> <ul style="list-style-type: none">Having their own ideas: thinking of ideas, finding ways to solve problems, finding new way to do thingsMaking links: Making links and noticing patterns in their experiences, testing their ideasChoosing ways to do things: planning, making decisions about how to approach a task, solve a problem and reach a goal, checking how well their activities are going, changing strategy as needed, reviewing how well the approach worked					
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Mechanisms Wheels and axles	Art focus	Structures Freestanding structures	Art focus	Food Preparing fruit and vegetables including cooking and nutrition requirements for KS1	Art focus

Year 2	Mechanisms Sliders and levers	Art focus	Textiles Templates And joining techniques	Art focus	Food Preparing fruit and vegetables including cooking and nutrition requirements for KS1	Art focus
Year 3	Mechanical systems Levers and linkages	Art focus	Food Healthy and varied diet including cooking and nutrition requirements for KS2	Art focus	Structures Shell structures including computer aided design	Art focus
Year 4	Textiles 2D shape to a 3D product	Art focus	Electrical systems Simple circuits and switches including programing and control	Art focus	Food Healthy and varied diet including cooking and nutrition requirements for KS2	Art focus
Year 5	Food Celebrating culture seasonality including cooking and nutrition requirements for KS2	Art focus	Structures Frame structures	Art focus	Mechanical Systems Pulleys or gears	Art focus
Year 6	Textiles Combining different fabric shapes including computer aided design	Art focus	Food Celebrating culture seasonality including cooking and nutrition requirements for KS2	Art focus	Electrical systems More complex circuits and switches including programing and control	Art focus