



Design and Technology

Whole School - Long Term Plan



Early Years Foundation Stage

At St Mary's we understand that the EYFS framework is structured very differently to the national curriculum as it is organised across seven areas of learning rather than subject areas.

The most relevant statements for DT are taken from the following areas of learning:



- Physical Development
- Expressive Arts and Design
- Understanding of the World

Three & Four Year Olds	Personal, Social & Emotional Development	<ul style="list-style-type: none"> • Select and use activities and resources, with help when needed. This helps them to achieve a goal they have chosen or one which is suggested to them.
	Physical Development	<ul style="list-style-type: none"> • Use large-muscle movements to wave flags and streamers, paint and make marks. • Choose the right resources to carry out their own plan. • Use one-handed tools and equipment, for example, making snips in paper with scissors.
	Understanding the World	<ul style="list-style-type: none"> • Explore how things work.
	Expressive Arts & Design	<ul style="list-style-type: none"> • Make imaginative and complex 'small worlds' with blocks and construction kits, such as a city with different buildings and a park. • 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. • Create closed shapes with continuous lines, and begin to use these shapes to represent objects.
Reception	Physical Development	<ul style="list-style-type: none"> • Progress towards a more fluent style of moving, with developing control and grace. • Develop their small motor skills so that they can use a range of tools competently, safely and confidently. • Use their core muscle strength to achieve a good posture when sitting at a table or sitting on the floor.



	Expressive Arts & Design	<ul style="list-style-type: none"> • Explore, use and refine a variety of artistic effects to express their ideas and feelings. • Return to and build on their previous learning, refining ideas and developing their ability to represent them. • Create collaboratively, sharing ideas, resources and skills.
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Early Learning Goal	Physical Development	Fine Motor Skills	<ul style="list-style-type: none"> • Use a range of small tools, including scissors, paintbrushes and cutlery.
	Expressive Arts & Design	Creating with Materials	<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.


Key Stage One


Topics	EYFS - Ourselves	EYFS - Toys & Robots	EYFS - Nature Explorers
	Aut 1 (All about me) Aut 2 (Humans)	Spr 1 (Toys & Materials) Spr 2 (Robots & Materials)	Sum 1 (Life Cycles / Plants) Sum 2 (Minibeasts)
DT 	Mechanisms: Making a moving story book Structures: Baby Bear's Chair (Autumn 2)	Textiles: Puppets	Mechanisms: Making a moving monster St Mary's Topic link: Change to 'Making a moving minibeast' Healthy Schools Week: A balanced diet
Topics	EYFS - A World Together	EYFS - Fantasy Worlds	EYFS - 'Yo Ho off we go!'
	Aut 1 (people) Aut 2 (animals)	Spr 1 (Space) Spr 2 (Dinosaurs & Fossil Hunters)	Sum 1 (Growing & planting) Sum 2 (Under the Sea)
DT 	Textiles: Pouches St Mary's Topic link: Adinkra symbol design linked to another country Cooking and Nutrition: Where does fruit come from? St Mary's Topic link: Design a 'fruit salad' linked to Handa's Surprise	Mechanisms: Wheels and Axles Design a Moon buggy / Spaceship	Structures: Constructing a Windmill St Mary's Topic link: Change to 'Making a lighthouse' Healthy Schools Week: Eat more fruit and vegetables. Design 'vegetable faces'.

Lower Key Stage Two

	Aut 1	Spr 1	Sum 1
DT 	Structures: Iron Age Roundhouses (not kapow) - <i>DT day end of autumn 1</i>	Digital world: Mindful moments timer	Cooking & Nutrition: Eating Seasonally
	Aut 1	Spr 2	Sum 2
DT 	Electrical systems: Torches (<i>condense and link to science: electricity</i>)	Mechanical Systems: Pneumatic toys (link to whales)	Textiles: Cross-stitch and appliqué (Egyptian collars)

Upper Key Stage Two

	Aut	Spr	Sum
DT  Condensed Scheme of Work	Electrical Systems: Doodlers Cooking and Nutrition: Developing a Recipe	Mechanical Systems: Making a Pop-up book	Structures: Bridges Digital world: Monitoring Devices
	Aut	Spr	Sum

<p>DT</p> 	<p>Structure: Playgrounds</p> <p>Mechanical Systems: Automata Toys</p>	<p>Electrical Systems: Steady Hand Game</p>	<p>Digital World: Navigating the World</p> <p>Cooking and Nutrition: Come Dine with me Writing</p>
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