



St Mary's Catholic Primary School

Design Technology Curriculum Overview



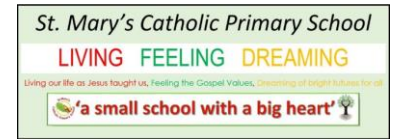
Whole School Curriculum Map

	Cycle	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Acorn	A	Knowing Me, Knowing You People Who Help Us People and Homes	Diwali, night and day Christmas	Chinese New Year Under the sea Looking after our planet	Animals	Jurassic World Aliens	Plants and Growth
Blossom	A		Cooking and Nutrition - Making smoothies		Textiles - Making puppets		Mechanisms - Wheels and axels
	B	Cooking and nutrition - Balanced diet		Textiles - Pouches			Mechanisms - Fairground wheel
Oak	A	Mechanical systems: sling- shot car		Structures: constructing castles		Cooking & Nutrition: develop a recipe	
	B	Textiles: Money container			Digital & CAD: Animal Monitoring device	Mechanical systems: pop-up books	
	C	Mechanical systems: automata toys		Cooking & Nutrition: eating seasonally		Structure: Greek structures	
	D	Textiles: stuffed toys			Digital & CAD: cross-curricular Lego Coding	Electrical systems: torches	



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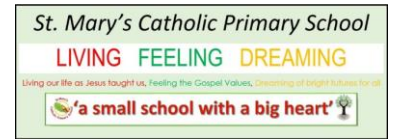
National Curriculum Overview

Development Matters / ELG	Cycle A		
	Knowing Me, Knowing You People who help us People and homes Diwali, night and day Christmas	Chinese New Year Under the sea Looking after our planet	Jurassic world Aliens Plants and growth
Join different materials and explore different textures	✓	✓	
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.	✓	✓	
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.	✓	✓	
Draw with increasing complexity and detail, such as representing a face with a circle and including details	✓	✓	
Use drawing to represent ideas like movement or loud noises	✓	✓	
Show different emotions in their drawings and paintings, like happiness, sadness, fear etc	✓	✓	
Explore colour and colourmixing	✓	✓	
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.	✓	✓	



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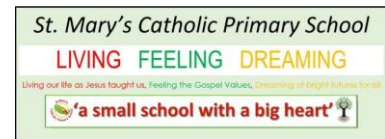
Create collaboratively, sharing ideas, resources and skills.	✓	✓	
Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function			✓
Share their creations, explaining the process they have used			✓
Make use of props and materials when role playing characters in narratives and stories.			✓
ELG	Cycle A		Cycle B
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.			

KSI	Cycle A			Cycle B		
	Cooking and Nutrition - Making smoothies	Textiles - Making Puppets	Mechanisms - Wheels and axels	Cooking and nutrition - balance d diet	Textiles - pouches	Mechanism - Fairground wheel
Design purposeful, functional, appealing products for themselves and other users based on design criteria	✓	✓	✓	✓	✓	✓
Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology	✓	✓	✓	✓	✓	✓
Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]		✓	✓		✓	✓
Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	✓	✓	✓	✓	✓	✓
Explore and evaluate a range of existing products	✓	✓	✓	✓	✓	✓



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Evaluate their ideas and products against design criteria	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Build structures, exploring how they can be made stronger, stiffer and more stable				✓								✓
Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.				✓						✓		✓
Use the basic principles of a healthy and varied diet to prepare dishes	✓							✓				
Understand where food comes from.	✓							✓				
KS2	Cycle A			Cycle B			Cycle C			Cycle D		
	Mechanical systems: sling-shot car	Structures: castle construction	Cooking & Nutrition: adapting recipes	Textiles: Money containers	Digital & CAD: Animal Monitoring device	Mechanical mechanisms: pop-up book	Mechanical mechanisms: automata toys	Cooking & Nutrition: eating seasonally	Structure: Greek structures	Textiles: stuffed toys	Digital & CAD: cross- curricular Lego Coding	Electrical systems: torches
Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups	✓	✓	✓	✓	✓	✓	✓		✓	✓		✓
Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓
Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities	✓	✓	✓	✓		✓		✓	✓	✓		✓
Investigate and analyse a range of existing products	✓	✓	✓			✓	✓		✓	✓		✓
Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓
Understand how key events and individuals in design and technology have helped shape the world	✓		✓		✓		✓				✓	✓
Apply their understanding of how to strengthen, stiffen and reinforce more complex structures		✓							✓			
Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]	✓					✓	✓				✓	
Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]												✓
Apply their understanding of computing to program, monitor and control their products					✓						✓	



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Understand and apply the principles of a healthy and varied diet			✓					✓				
Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques			✓					✓				
Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.			✓					✓				