

Design Technology Overview

Sr Malachy's RC Primary St

	Autumn	Spring	Summer	Cooking and Nutrition
N	Christmas Baking Cooking and Nutrition	Three Billy Goats Architecture and Structure	Hungry Caterpillar Mechanisms and Mechanical Systems	
R	Moving Christmas Cards Mechanisms and Mechanical Systems	Animals Homes Architecture and Structures	Teddy Bear Picnic Cooking and Nutrition	
Year 1	Homes Architecture and Structures	Flying Kites Design	Moving Mini Beast Mechanisms and Mechanical Systems	Seaside Snacks
Year 2	Delightful Decorations Textiles	Wacky Windmills Architecture and Structures	Making Fire Engines Mechanisms and Mechanical Systems	Perfect Pizza
Year 3	Story Books Mechanisms and Mechanical Systems	Light — UP Signs Programming and Electronics	Mini Greenhouses Architecture and Structures	Sandwiches
Year 4	Seasonal Stockings Textiles	Torches Electrical Systems	Great British Inventors Architecture and Structures	Seasonal Food
Year 5	Building Bridges Architecture and Structures	Fashion and Textiles Textiles	Moving Toys Mechanisms and Mechanical Systems	Burgers
Year 6	Fairground Electrical Systems	Shelters Architecture and Structures	Programing Pioneers Programming and Electronics	Great British Dishes



	Autumn	Spring	Summer		
Nursery	Cooking and Nutrition - Preparing Food	Structures - Freestanding Structures	Mechanisms and Mechanical Systems		
Overview	Christmas Baking Children engage in the process of making savoury and sweet dishes Discussing hygiene and safety expectations before learning and applying skills.	Three Billy Goats Children will learn about how simple bridges are constructed. They will then make a bridge to carry the Three Billy Goats across the river.	Hungry Caterpillar Children will find out what a sliding mechanism is, and how it can be used to make a simple moving picture. Children will use this to create a moving Hungry Caterpillar		
	End of Unit Key Assessment Questions				
Reception	Mechanisms and Mechanical Systems	Structures - Freestanding Structures	Cooking and Nutrition		
Overview	Christmas Cards	Animal Homes	Teddy Bear Picnic		
	Children will find out what a	Working in groups to create a freestanding	Children to discuss and explore different picnic		
	sliding mechanism is, and how it can be	structure (home) for an animal from a hot or	foods and what are the most appropriate		
	used to make a simple moving picture.	cold environment.	foods to take on a picnic. They will also		
	Children will use this to create a moving	Children to look at the suitability of the	consider what are		
	Christmas card.	structure	healthy and balanced food choices using an		
			'eatwell plate' and taste different types of		
		Explore materials best used for creating a	picnic foods using		
		-	appropriate vocabulary to describe them.		
	End of Unit Key Assessment Questions				



	Autumn	Spring	Summer	Cooking and Nutrition
Year 1	<u>Homes</u>	Flying Kites	Moving Mini Beast	Seaside Snacks
	Children will explore and investigate	Children will explore different types of	Children will find out what a	Children will apply all they have
	the various types	kites and why people make them.	sliding mechanism is, and how it can	learnt about seaside snacks when
	of houses people live in around the	Children will learn about kites	be used to make a simple moving	creating a balanced picnic. They will
	world, as well as the shapes you can	made in different countries and what	picture. They will then explore the	use a balanced plate to check how
	find in houses. They will be challenged	they are used for. Children will use	sliding mechanism themselves making	healthy their picnics are and if they
	to think about what materials and	colours, shapes and patterns to	a variety of simple moving pictures	can be improved at all.
	tools to use as well as how to join	make and decorate a kite.	with different minibeasts.	
	them.			
Year 2	Delightful Decorations	Wacky Windmills	Making Fire Engines	Perfect Pizza
	Children will discuss what a decoration	Children will explore what a windmill is	Children will explore modern fire	Children to discuss their favourite
	is, as well as where, when and why we	and identify the different parts they	engines and their features, looking at	pizza and compile
	might use them. They will look at	have. Children will look at different	what features are common to all	information into a pictogram. They
	different	windmills around the worlds and	vehicles and which are specific to fire	will also consider healthy eating
	sets of decorations and identify which	discuss their differences. They will	engines. Children will look at a 17th	and complete a balanced plate by
	special occasions they are linked with.	design their own windmill	century fire engine to compare how	sorting their favourite pizza
			they are similar and different to	ingredients.
			modern fire engines.	
Year 3	Story Books	<u> Light – UP Signs</u>	Mini Greenhouses	<u>Sandwiches</u>
	Children will examine a variety of	Children will consider the purposes of	Children will find out the purpose	Children will learn about the
	books with moving mechanisms and	illuminated signs, and identify a number	of a greenhouse, and how it can help	nutritional content of a variety of
	discuss their design and construction	of ways in which signs may be	plants to grow. Children will explore	sandwiches and fillings, and
	using technical vocabulary.	illuminated. They will make a simple	the structures and how these can be	consider how grouping food can
		circuit, considering how some of the	made stable	help us plan for a healthy diet.
		components might be hidden		



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SE	St Malachy's RC Primary Sone We do our best for Jesus Autumn Cooking and Nutrition				
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Year 4	Seasonal Stockings	<u>Torches</u>	Great British Inventors	Seasonal Food	
	Children will find out where the	Children will look at a variety of	Children will find out about famous	Children will learn why certain British	
	tradition of the Christmas stocking is	torches, identifying features and	British inventors and their	foods are seasonal, and consider some	
	thought to have come from. Before	considering their uses. They will	revolutionary inventions. Children	pros and cons of foods from other	
	looking at any examples. Children	identify how torches work by creating	are then challenged to design and	parts of the world being available all	
	will learn about the importance of	a circuit	evaluate problem-solving products	year	
	functionality and visual appeal			round.	
Year 5	Building Bridges	Fashion and Textiles	Moving Toys	<u>Burgers</u>	
	Children will learn about how simple	Children will discover how some	Children will think of and	Children to explore and discuss	
	bridges are constructed using	natural and synthetic textiles are	investigate different moving toys.	different burgers, restaurants and	
	beams, pillars or piers, then make	produced, and consider their uses in	They will learn about cam	their preferences. They will analyse	
	and test beam bridge designs.	clothing.	mechanisms and explore different	different nutrition facts and find out	
			toys that use them.	how to check the nutrition fact labels.	
Year 6	<u>Fairground</u>	<u>Shelters</u>	Programing Pioneers	Great British Dishes	
	Children to explore and discuss	Children will explore, discuss and	Children will learn that many more	Children will develop their	
	different fairground rides they have	investigate a range of shelters,	complex electrical products are	understanding of what a national dish	
	been on. They will think about how	thinking about what they are made	controlled using embedded	is. They will explore some national	
	they move, what are the components	from and their purpose. Children will	computer systems, often with	savoury dishes of England, looking at	
	that join them	carry out some experiments to find	microcontrollers with specially	the origin of each one	
	together and the mechanisms that	out how best to join materials	written programs on them. They	and discussing how healthy it is	
	make them work	together to form a structure and	will begin to explain, in human		
		think about how to reinforce the	language, the algorithms that		
		structures to make them stronger.	monitor and control these systems.		