

Design and Technology at St Luke's RC Primary School



Nursery	Children in Nursery will:								
,	• 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.								
	• Explore how things work.								
	Make imaginative and	ake 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 ide	Pevelop 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	Children in Reception will:								
•		 Develop their small motor skills so that they can use a range of tools competently, safely and confidently. 							
	 Explore, use and refin 	• Explore, use and refine a variety of artistic effects to express their ideas and feelings.							
	 Return to and build o 	 Return to and build on their previous learning, refining ideas and developing their ability to represent them. 							
	 Create collaboratively 	, sharing ideas, resources a	nd skills.						
	Use a range of small to	tools, including scissors, pair	ntbrushes and cutlery.						
	 Safely use and explore 	• 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.						
	Year One	Year Two	Year Three	Year Four	Year Five	Year Six			
Textiles	Theme: Hand puppets	Theme: Felt	Theme: Christmas	Theme: Christmas	Theme: Sustainable	Theme: Keepsake			
CALLES		Christmas		stockings	bags	blanket .			
		decorations							
	Knowledge: To know		Knowledge: Know that	Knowledge: Know	Knowledge: Know why	Knowledge : Know how			
	how to describe the	Knowledge: Know	some properties of	what a template/pattern	it is important to	fabrics and fashions have			
	texture of different	some different methods	materials make an	is and why they are	consider what the	changed over time.			
	materials.	for joining textiles	aesthetically pleasing	used. Know what a	consumer will want.				
		together.	product.	prototype is.					
		Know that different scissors are needed to cut different materials. Know how to: Know how to: Know how to:							
	V., b t .								
	Know how to:	cut amerent materials.	• Sew using cross stitch,	Know how to:	• Sew using blanket	• Learn how to pin			
	 Sew and join fabrics using a 	Know how to:	running stitch and	• Sew using back stitch,	stitch, back stitch,	and tack fabric			
	running stitch and	Sew and join	over stitch.	cross stitch, running	cross stitch, running	together.			
	over sewing.	fabrics using a	Join fabrics using a	stitch and over stitch.	stitch and over stitch.	Be able to join			
	212. 22.1.1.19.	running stitch and	range of stitches	 Ensure their sewing 	 Create products 	fabrics by blanket			
		over sewing.	with increasing	skills become more	using pattern pieces	stitch, over stitch,			
		J	independence.	accurate.	and demonstrate an	,			

		 Cut out shapes which have been created by drawing round a template onto the fabric. Use glue and tape to join fabrics. Decorate the textiles using resources such as: sequins and colour. 	Add decoration to their work (buttons, beads and sequins etc.).	Use a pattern and make a prototype of a product.	awareness of seam allowance.	back stitch running and cross stitch. Be able to make a product with increasing accuracy and independence. To be able to use a craft knife, safety mat and precision ruler if needed.
Mechanisms	Theme: Moving pictures Knowledge: Know what sliders and levers are and how they are used in products. Know how to: Create levers and sliders.	Theme: Moving vehicles Knowledge: Know what wheels, axles and chassis' are and how they are used in products. Know how to: Create and use wheels, axles and chassis'.	Knowledge: Know what pneumatics are and how they are used in products. Know how to: Create and use pneumatics.	Knowledge: Know what levers are and how they are used in products. Know how to: Create and use levers. Theme: Mechanical Systems - Alarms Knowledge: Know what electrical systems are and how they are used in products. Know how to: Incorporate the most appropriate	Theme: Children's game Knowledge: Know what cams are and how they are used in products. Know how to: Create and use cams in their products.	Theme: Steady hand game Knowledge: Know what electrical motor systems are and how they are used in products. Know how to: Incorporate the most appropriate electrical systems within their products. To be able to use appropriate tools and equipment and more complex tools with accuracy.

				electrical systems within their products. • To be able to use appropriate tools and equipment safely.		
Structures	Theme: Castles	Theme: Buildings	Theme: Shell structures	Theme: European landmarks	Theme: Shelters	Theme: Bridges
	Knowledge: Know how to strengthen a model so that it is more stable. Know the names of materials to make strong products.	Knowledge : Know how to make a structure more stable, stiffer and stronger.	Knowledge : Know how to fold and roll different materials to support structures.	Knowledge : Know a range of joining and strengthening techniques.	Knowledge: Know a range of methods for making a product strong (folding, rolling or joining materials). Understand how key events and individuals in design and technology have helped shape the world.	Knowledge : Know what joints are and know why and how to hide them.
	Know how to: • Make a structure that stands alone.	 Know how to: Build a simple structure and improve them by making them stiffer, stronger and more stable. To be able to use tools safely for cutting and joining materials. 	Know how to: • To be able to make a shell structure by hand and by using computer aided design.	 Know how to: To be able to use a range of joining and strengthening techniques in their structures. To use a glue gun with close supervision. 	 Know how to: Be able to build a framework using a range of materials to support structures. To use a glue gun with close supervision. To be able to cut materials accurately using a range of tools specific for the job. 	Know how to: • To be able to use appropriate tools and equipment and more complex tools with accuracy.

Cooking and	Theme: Fruit salad/kebabs	Theme: Soup	Theme: Seasonal produce	Theme: Savoury dishes	Theme: Pizza	Theme: Food origins
Nutrition	Knowledge: To know and identify the main food groups, including fruit and vegetables. To identify the common source of foods.	Knowledge: To know that you need a variety of foods in a diet and to know and be able to explain where the food they eat comes from.	Knowledge: To know what a balanced diet is. To know and understand 'seasonality' and be able to explain what particular foods are available when.	Knowledge: To know how to make healthy eating choices and to be able to explain their choices. To know the processes that some foods go through to preserve them/make them more appealing.	Knowledge: To know what food contribute towards a balanced diet and be able to evaluate meal choices. To know and be able to identify which food comes from the UK and which food comes from other countries in the world.	Knowledge: To know how ingredients are grown, reared, caught and processed. To know how to plan a health and affordable balanced diet.
	Know how to: • Measure and weigh food items using non-standard measures.	Know how to: • Cut, peel, grate and chop a range of ingredients.	Know how to: • Combine a variety of ingredients using a variety of cooking techniques.	Know how to: • Measure and weigh ingredients appropriately to prepare and cook a range of savoury dishes.	Know how to: • Knead, rub, mix in to combine food ingredients appropriately.	Know how to: • Use appropriate tools, equipment, measuring scales.