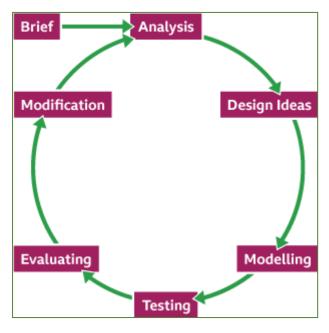


#Design and Technology



Design and Technology at Newtown Linford is about being curious and expressive. Children will follow an iterative process of designing and making. Across each phase children will have an opportunity to cook, sew, build and make using the disciplinary concepts outlined below. Staff will use 'Projects on a Page' from the Design and Technology Association to support the planning process to ensure progression across the curriculum. Children will learn about important architects, creators, designers and inventors throughout their curriculum journey.

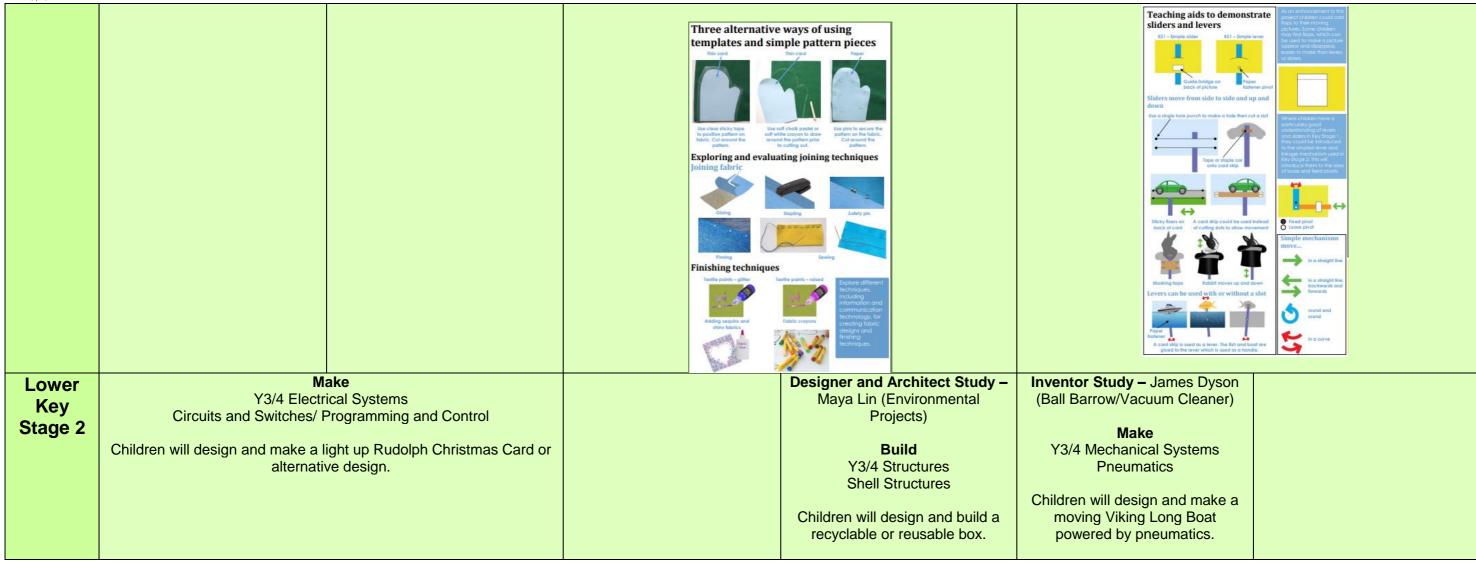
Disciplinary Concepts: Research and Investigate, Design, Make and Use and Evaluate

Cook Sew Build Make

Cycle A

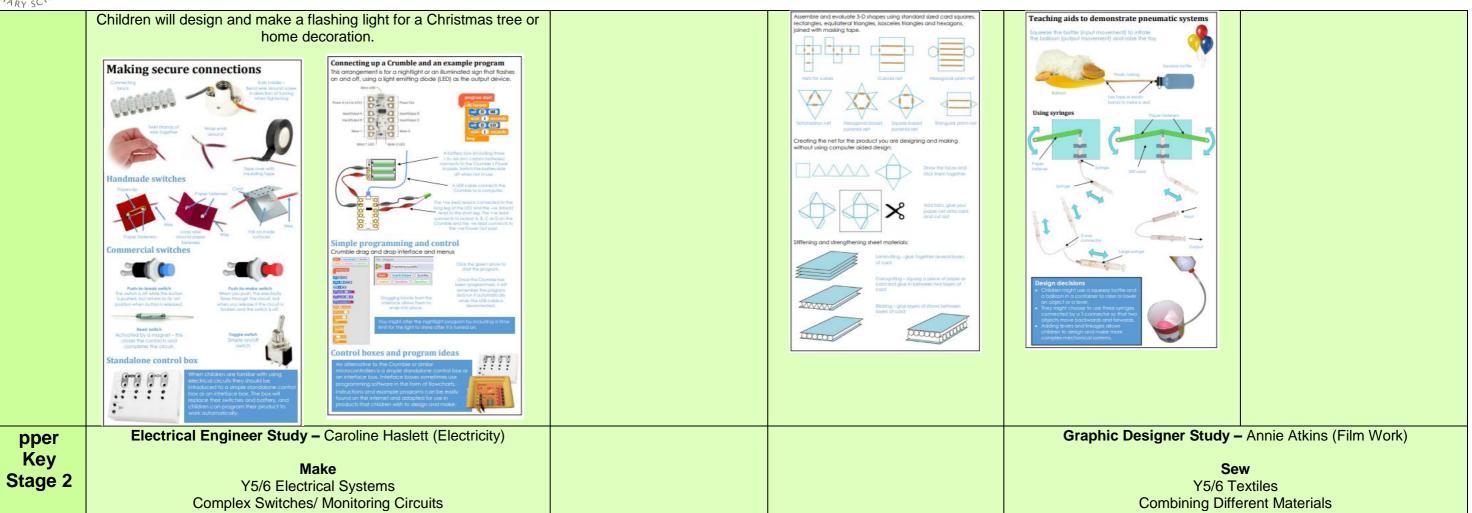
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
EYFS	Adult Directed Learning – Create own home through junk modelling. Continuous Provision – Opportunities for cutting and sticking. Develop use of small tools – scissors. Share creations and explain process.	Continuous Provision – Opportunities for cutting and painting. Develop use of small tools – paintbrushes. Share creations and explain process.	Continuous Provision – Opportunities for cutting and drawing. Develop use of small tools – scissors, pencils, crayons and chalk. Share creations and explain process.	Adult Directed Learning – Children cut and join a range of fabrics using simple techniques. Children in EYFS will join fabric landmarks they have cut out to a map of the UK. Continuous Provision – Opportunities for cutting and joining. Develop use of small tools – scissors, stapler and material glue. Share creations and explain process.	Continuous Provision – Opportunities for cutting and joining. Develop use of small tools – cutlery for preparing garden vegetable snacks. Share creations and explain process.	Adult Directed Learning — Children will design and create a lolly stick sea animal puppet. They will mark and cut with increasing accuracy. Continuous Provision — Opportunities for cutting and joining. Develop use of small tools — cutlery for preparing garden vegetable snacks. Share creations and explain process.	
		Children will have regular access to small tools and the opportunity to explore a range of materials. They will be guided to use these safely and confidently. Continuous Provision outlined here highlights key foci for each term but multiple resources and materials will be available.					
Key Stage 1			Sew Y1/2 Textiles Templates and Joining Children will design and make puppets based on their narrative unit in English.		Civil Engineer Study – Mary 'Molly' Ferguson Make Y1/2 Mechanisms Sliders and Levers Children will design and make moving sea creatures using sliders and levers.		





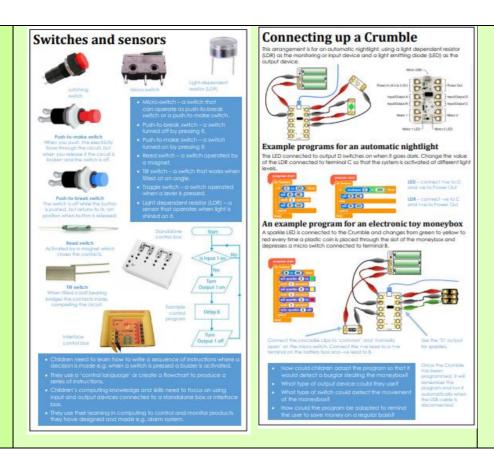


Children will design and make an automatic night light for their Year R buddy.



Children design and sew the backdrop for their summer play performance.









Cycle B

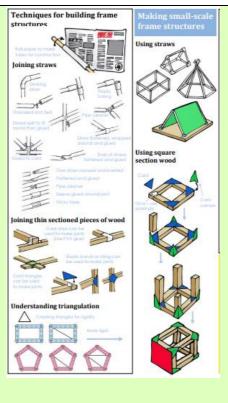
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Continuous Provision –	Adult Directed Learning –	Adult Directed Learning –	Continuous Provision –	Adult Directed Learning –	Continuous Provision –
	Opportunities for cutting and	Create the Houses of	Children cut and join a range of	Opportunities for cutting and	Children will design and create	Opportunities for cutting and
	sticking.	Parliament through junk	fabrics using simple techniques.	drawing.	lolly stick Kings and Queens	joining.
	Develop use of small tools –	modelling.	Children in EYFS will join fabric	Develop use of small tools –	puppets. They will mark and cut	Develop use of small tools –
	scissors.		elements to a seasonal	scissors, pencils, crayons and	with increasing accuracy.	scissors, stapler and material
	Share creations and explain	Continuous Provision –	quadrant.	chalk.		glue.
	process.	Opportunities for cutting and		Share creations and explain	Continuous Provision –	Share creations and explain
		painting.	Continuous Provision –	process.	Opportunities for cutting and	process.
		Develop use of small tools –	Opportunities for cutting and		joining.	
		paintbrushes.	joining.		Develop use of small tools –	
		Share creations and explain	Develop use of small tools –		cutlery for preparing garden	
		process.	cutlery to cut seasonal foods.		vegetable snacks.	
			Share creations and explain		Share creations and explain	
			process.		process.	
					ded to use these safely and confidently.	
Kan Otana 4			outlined here highlights key foci for each	ch term but multiple resources and ma		
Key Stage 1		Aeronautical Engineer Study - Beatrice Shilling (Motor Racer	Cook Y1/2 Food		Architect Study – Zaha Hadid (Comparison to buildings from	
		and Engineer)	Preparing Fruits and Vegetables		the past)	
		and Engineer)	Trepaining truits and vegetables		tile past)	
		Make			Build	
		Y1/2 Mechanism			Y1/2 Structures	
		Wheels and Axles			Freestanding Structures	
					J S S S S S S S S S S S S S S S S S S S	
					Children will build a freestanding	
					Balmoral Castle.	
		Two different ways to fix wheels	Teaching aids to demonstrate food			
		Dowel or paper sticks used to make aske	processing skills		Techniques for assembling freestanding	
		Wheel	*		Structures Fipe cleaner Side John Half of card	
		Plastic hubing or show			Sweet Molchificks	
			Pealing Cutting Slicing		Prosteins Q Cord Strong	
		Loose fiffing hole for axle, loosely	1 442		Show children how to join sheet materials and reclaimed baxes together using different tapes and glues.	
		for axie, lightly fixed wheels masking tape			Masking Cut and / glued	
		Types of wheels			tope	
			Grating Squeezing			
			Food Processing Equipment Utensil Food Effect Mouth feet Micer Crange Makes luice Usud		Technical knowledge and understanging	
		Wood/card/MDF Plastic Coffon reels Foam covered reels	Juicer Crange Makes Juice Uquid		Build walls with these different patterns. Tap away the centre brick in the bottom row of each wall in turn. What happers? Which wall is the strongest?	
		Ways to hold moving axles Use pairs of clothes pegs glued with PVA to the	Peeler Apple Unpeeled apple Crunchy			
		underside of a box. Check the peg holes are large enough to allow axies to move freely.				
		Make sure they are aligned carefully so the vehicle moves in a straight line when the wheel and axle mechanism is added.	Krife Carrot Thin rings Crispy hard			
		Use card triangles with holes for the axle. Check the holes are large enough to allow the			Top here Top here Top here Centre of As a teactoriding structure becomes the analysis of th	
		ade to move freely. Moke sure opposite triangles are aligned configured to the confi	Hygiene - some key pointers		taste its centre of growin rate. shootily in a thructure can generally be increased by making the base wide.	
		when the wheel and axie mechanism is added.	Jewellery's removed Hair's fied back Sleeves are rolled up		Object faits and object buffreses. Ask the children to build and explore a.	
		Use large paper/plastic straws fixed with masking tape to the underside of a box. Check straws are positioned carefully so the	Aprons are on Hands are washed		variety of feedlanding structures. We way if facused tasks, the a range of construction sits.	
		vehicle will move in a straight line when the wheel and asie mechanisms are added. Make sure the straw hole is large enough to	Cuts are covered with blue waterproof dressing		Wider bases and	
		allow the axie to move freely. The wheels must be fixed tightly to the axie.	Further information from www.foodafactofile.org.uk		Wider bases and buffresses for stability	



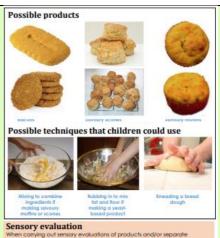
Lower	Make	Fashion Designer – Paul	Cook
Key Stage	Y3/4 Mechanical Systems	Smith	Y3/4 Food
1	Children will design and make a pop-up book.	Sew Y3/4 Textiles Children will design and sew a 3D Christmas bauble.	Children will cook pittas, potato salad and carrot and orange salad.
	Teaching aids to demonstrate levers and linkages Itsed gived Inose givet Inose g	Teaching aids – joining techniques Bock sillich Bock sillich Bock sillich Cover saw sillich Cover saw sillich Bonded Bo	The transact products Skills and techniques Conting using the language between the transact of the transact
Upper Key Stage 2		nolls Prtichard (The Iron Bridge) - Isambard Kingdom Brunel (Civil	Chef – Marcus Wareing (Kitchen Garden) Cook
_		eering)	Year 5/6 Food Celebrating Culture and Seasonality Children will cook Rotis and soup made from produce from the
			school garden.

Newtown Linford Primary School









Example of a recording table: Type of a recording table: Type of adpearance orthodoresement foot product Sensory some deciden/rough Fresh/baked Crumbly Cheesy

Children can also use simple ranking and rating tables as well as star diagrams.

Use packaging and/or the internet to find out about the nutritional

Edible plants grown in the school grounds can also be evaluated and considered as potential ingredients for products the children will later design, make and evaluate. The benefits/difficulties of selecting seasonal,