	Design and Technology Long Term Plan Cycle A				
Year group	Autumn	Spring	Summer		
EYFS	Happily Ever After/Jesus is the Reason for the	Life's a Journey/ God's Wonderful World	Commotion in the Ocean / Nature's Kitchen		
	<u>Season</u>		<u>Make</u>		
		<u>Make</u>	Junk model submarines		
	<u>Make</u>	Junk model London buses	Salt dough fish (Nursery)		
	Build a bridge or a boat, for the Gingerbread Man to	Huge London bus using play blocks	Create superhero vegetables with pipe cleaners,		
	cross the river	Make hatching eggs using split pins	googly eyes and pieces of fabric		
	Playdough gingerbread men	Make party decorations	Superhero mask/ capes		
	Ant pies in the mud kitchen	Paper weaving – Easter Cards	Superhero laser goggles or cuffs using card		
			Design and make evil pea traps		
Y1/2	<u>Local Heros</u>	We do like to be beside the seaside	Where would you prefer to live England or Africa?		
, -	Mechanisms - Propeller boat	<u>Textiles</u> - Puppet Making	Materials - African Paper Mask		
	Design and make a propeller boat and see whether	Create a hand puppet, to put on a show for the	Design and make a paper mask to represent your		
	you can avoid an iceberg!	EYFS	class (tribe) – the winner to be displayed on the		
		(i.e Punch and Judy) or link to Pathways Book	class door!		
	John Ericsson invented the ship propeller.				
	Test it:	Jim Henson – muppets			
	Does the prpellor make your boat move in the water and	<u>Test it:</u>	Mlle Hipolyte – contemporary animal masks		
	can it move around an iceberg?	Make puppets and build a class theatre. Did the children	Test it:		
		enjoy it?	Does your mask represent St Chad's? Did yours win the		
			class vote?		

Y3/4	Local Detectives Electronics/Construction - Miners Lamp Design and make a lamp to help the miners see down the mines.	Ruthless Romans Construction - Roman Shields Design and make a shield to keep a Roman solider safe in battle	Go Greece Lightening Textiles - Greek sandals Design and make a Greek sandal, to fit your foot
	In the style of the Davy Lamp (Sir Humphry Davy) incorporating a bulb (Thomas Eddison) Test it: Darken the class room, does your lamp give enough light to move around safely?	Contemporary Link – police riot shield designed by Arnolds – Are they a similar design? Test it: Create a testudo formation on the playground, your	https://www.hamilton-trust.org.uk/topics/unit/1359-making-sandals/ Contemporary link – Designer Jimmy Choo
	Mechanisms – Pop Up Christmas Cards https://www.youtube.com/watch?v=qGujUeAdtNc Designer – Matthew Reinhart	teachers throw cardboard arrows – does your shield protect you?	Test it: March around the field like a Greek soldier. Did your sandal fit your foot and remain in one piece? Did your foot remain cool? Was it comfortable?
Y5/6	War Child Food - Then (rations) and Now Design and bake a main meal on a budget considering seasonality and ratios.	Trailblazers Materials/Construction/Electronics - Games Design and make a moving carousel ride (Linked to our Computing Curriculum – Scratch and Crumble) Protoype in card then a large scale whole class model (in wood). Add the electrical element to the design (lights, buzzer, switches etc).	Smashing Saxons Textiles - Anglo Saxon Purses Design and make a fabric money container that doesn't let the money fall out! Use a drawstring, a catch/button or zip
	Phillip Harburn – first male TV chef 1946 Mary Berry Jamie Oliver Nadiya Hussain Traditional cook School Dinners Great British Bake Off	Thomas Bradshaw, an English man built, the first carousel in 1861, The Flying Horse – was the first carousel built in the USA in 1876 by the Charles Dare John Spinello – designer of the buzzer game Operation	Contemporary wallet designers: Fendi, Louis Vuitton, Dior
	Michelin Star chef - Heston Blumenthal <u>Test it:</u>	<u>Test it:</u>	<u>Test it:</u> Fill the finished purse with coins and turn it upside down - do the coins stay inside the purse?

Provide a portion for Mrs Brennan's lunch. Can you explain seasonality and ratios to Mrs Brennan

Take to KS1 for their wet playtime. Can the children make the carousel move, light up and buzz?

	Design and Technology Long Term Plan Cycle B				
Year group	Autumn	Spring	Summer		
EYFS	Let There Be Light/Let's Celebrate	All Creatures Great and Small/All Aboard the Jolly	Stomp, chomp ROAR/A Bucket full of Memories		
		Roger!			
	<u>Make</u>		<u>Make</u>		
	Junk model Mr. Bear's house	<u>Make</u>	Create dinosaurs with half a paper plate and		
	Make a patchwork quilt using different art media	Spring dream catchers	kitchen rolls for legs		
	Make bear masks	Make salt dough mice	Make dinosaur heads using an egg box		
	Den building outside play – real bricks, real	Junk model crocodiles	Make a play dough dinosaur and add pasta shape		
	hay/straw/sticks to build with	Design their own pirate flag and treasure map	'spikes'		
	Make a house frame using playdough and straws	Salt dough treasure	Make something for a teddy so that you won't lose		
	or marshmallows and pasta		him		
	Pig snouts using egg boxes and elastic		Create a lost property box		
			Make a split pin teddy bear		
Y1/2	Great and Ghastly Events	Memory Box	<u>Unbelievable UK</u>		
	<u>Construction/Materials</u> – Houses	<u>Food</u> - Apple Crumble and Oatcakes	<u>Mechanisms</u> - Build a Car		
	Design and make a Tudor and compare to a	Bake a pudding to remind your grandparents of			
	modern day house – which is the	their school dinners	Design and make, a moving vehicle to carry an		
	strongest/safest?	Children to make an apple crumble and custard.	egg safely across uneven ground		
	Designer – Sir Christopher Wren	Invite grandparents in to eat. Traditional cook – Delia Smith Plus: Local Food - Cheesy Oatcakes			
	Test it: Create a tudor village outside and see if a fire would spread through your houses!	Test it: Invite Grandparents in to eat the pudding. Did it remind them of their school dinners?	Fredrick Bremer first UK car 1892 (Carl Benz 1886 first car) <u>Test it:</u>		

		Mechanisms - Easter cards – Sliders	Provide an uneven surface for your car to travel across. Does your car keep the egg safe?
Y3/4	Incredible Italia!	Stones and Bones	Land of the Pharoahs
,	<u>Food</u> - Pizza	<u>Materials</u>	Mechanisms - Pulleys and Levers
	Pizza competition! Desing and bake a pizza (base	Design and make accessories to dress like a	
	and toppings). The winning design will be on the	caveman	Design and make a pulley to lift the final block
	school menu the following week!	Salt Dough Jewellery and Paper Mache Cave Man Axe	onto a (duplo) pyramid
	Gino D'Campo Massimo Bottura	https://www.redtedart.com/stone-age-craft-how-to-make-a-	
		paper-axe/ https://www.imagininghistory.co.uk/post/stone-age-activities- crafts-for-kids https://www.imagininghistory.co.uk/post/creating-a-cave-painting	Designer: Elisha Otis – in 1857 he invented the first pulley elevator in New York with a safely hoist.
	Test it:	<u>Test it:</u>	Thist panely elevator in New York With a safety holst.
	Ask Mrs Wilshaw to judge which is the best pizza	Hold a caveman catwork – vote on whose accessories	Test it:
	topping. That pizza will be on the school menu the following week.	are the most authentic!	Did your pully lift the final block?
Y5/6	Rags to Riches	Raid, Invade, Stayed	Amazing Amazon
, -	Mechanisms - CAMS Toys	Construction - A Viking Longship	Construction - Amazon Bridge Building
	Create a new toy for our nursery children	Design and make a Viking Longship that is	Design and build a bridge to span the KS2
		historically accurate and floats	playground
	https://www.instructables.com/Mechanical-Cam-Toys/		The Iron Bridge opened in 1781, it was the first major bridge in the world to be made of cast iron.
	Designer: Jacques de Vaucanson is often regarded		Designed by - Thomas Farnolls Pritchard
	as the greatest mechanical toy crafter of all times		(Built by – Abraham Darby)
	Test it: Take the toys to our Nursery class. Can the children use	Apply knowledge of computing to program, monitor and control the product (use Tinkercad).	Apply knowledge of computing to program, monitor and control the product (use Tinkercad).
	the toy and do they like it?	<u>Test it:</u> Race the longboats – who's is the winner?	<u>Test it:</u>

	Built	It a bridge to span the KS2 playground – is it strong
		enough to carry a toy car across it safely?

	DT Progression of skills, knowledge and vocabulary			
		Physical Development	Expressive Art and Design	PSED/UTW
End of EYFS	Nursery: Skills and Knowledge	 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. 	 Make imaginative 'small worlds' with blocks and construction kits, such as a city with 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. 	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. UTW Explore how things work.
	Reception: Skills and Knowledge	 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. 	 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. 	
	ELG: Skills and Knowledge	 Fine Motor Use a range of small tools, including scissors, paintbrushes and cutlery 	 Creating with Materials 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. 	

	Vocabulary	Key vocabulary: tools, scissors and paintbrushes	Key vocabulary: materials, tools, explore, materials, colour, design, texture, form, function, creations, process, evaluate	Key vocablulay: explore, choose
		Design	Make	Evaluate
End of Y2	Skills	Children design purposeful, functional, appealing products for themselves and other users based on design criteria. They generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.	Children select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]. They select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. Children can: • begin to select and use a range of tools and equipment to cut, shape, join and finish • with help, measure and mark out to the nearest cm. • cut, shape and score materials with some accuracy; • assemble, join and combine materials, components or ingredients in order to make a product. • begin to use simple finishing techniques to improve the appearance of their product, such as adding simple decorations	Children explore and evaluate a range of existing products. They evaluate their ideas and products against design criteria.
	Knowledge	use their knowledge of existing products and their own experience to create their own ideas design products that have a purpose and explain how it will be suitable for the user	select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.	explore and evaluate existing products mainly through discussions, comparisons and simple written evaluations. talk about their design ideas and what they are making. as they work, start to identify strengths and possible changes they

	 plan how the products will look and work, through talking and simple annotated drawings plan and test ideas using templates begin to understand and follow simple design criteria; choose the best tools and materials for the project and explain why they are 		might make to refine their existing design. • evaluate their products and ideas against their simple design criteria • talk about what went well and what they would do differently next time
Vocabulary	Key vocabulary: purposeful, functional, appealing products, design criteria, products, templates, annotated drawings	Key vocabulary: tools, cut, shape, join, finish, materials, components, measure, mark, score, assemble, improve, appearance	Key vocabulary: explore, evaluate, improve, refine, design, product, criteria
Technical Knowledge	Materials and Construction Children build structures, exploring how they can be made stronger, stiffer and more stable.	Mechanisms	Textiles
Designer/Crafts Person/Cook	Mlle Hipolyte – contemporary animal masks Sir Christopher Wren - Great Fire of London rebuild	Fredrick Bremer first UK car 1892 Carl Benz 1886 first car John Ericsson invented the ship propeller.	Jim Henson - muppets
Skills	build simple structures, exploring how they can be made stronger, stiffer and more stable (use joining, rolling, folding, laying bricks to spread out the weight not directly on top of each other and own ideas); use safe ways of cutting materials including a junior hacksaw with support select from and use a wide range of materials and components, according to their characteristics.	explore and create products using mechanisms, such as levers, sliders, wheels and axles	 Children can: assemble, join and combine materials, demonstrate how to measure, cut and join fabric to make a simple product. use a basic running stich or glue to join fabric. begin to use simple finishing techniques to improve the appearance of their product, such as adding simple decorations
Knowledge	talk about and start to understand the simple working characteristics of materials and components. Use their knowledge of traditional African mask makers and the	Say why they have chosen moving parts.	children can: choose a suitable textile according to their characteristic and explain why.

	contemporary work of Mlle Hypolyte to inspire their work		
Vocabulary	Key vocabulary: strong, stiff, stable, design, components, structures, joining, equipment, material, fabric, shape, glue, cut, fold, staple, join, function, adhesive, template	Key vocabulary: slider, lever, pivot, slot, card, masking tape, join, pull, push, up, down, straight, curve, forwards, backwards, vehicle, wheel, axle, axle holder, cutting, joining, moving, tools, equipment materials	Key vocabulary: textile, assemble, join, combine, materials, measure, cut, product, running stitch, finishing, tools, fabrics, decorate, finish
Technical Knowledge	Food Children use the basic principles of a healthy and varied diet, and where food comes from, to prepare dishes.	Electronics	
Cook	Delia Smith – traditional cook	N/A	
Skills	Children can: with support, follow a simple plan or recipe; design and prepare simple dishes follow hygiene procedures (washing hands and cleaning work surfaces); select and use hand tools and equipment safely such as scissors, graters, safe knives cut, peel and grate ingredients, measure and weigh ingredients using measuring cups		
Knowledge	Children can:		

	vegetables every day and start to explain why;		
Vocabulary	Key vocabulary: healthy, unhealthy, source, fruit, vegetables, carbohydrates, proteins,		
	dairy, oils, clean, safe, dirty, unsafe, amount, ingredients, recipe, weight, cut, peel, grate, slice, farmed, plant, hygiene.		
	Design	Make	Evaluate

Children 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. They generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design to develop and communicate their ideas where able Children can: ' use computer-aided design to develop and communicate their ideas where able use annotated sketches and cross-sectional drawings to develop and communicate their ideas; test ideas out through using prototypes; rest ideas out through using prototypes; and the object of the computer and the object and the objec	 			
	Skills	inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. They generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design Children can: use computer-aided design to develop and communicate their ideas where able use annotated sketches and cross-sectional drawings to develop and communicate their ideas; test ideas out through using	and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately. They 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. Children can: • with growing independence, measure and mark out to the nearest cm and millimetre. • cut, shape, score, assemble and join materials/components with some degree of accuracy to make a simple product; • begin to select and use finishing techniques to improve the appearance of a product such as hemming, fabric paints and digital	products. They evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. They understand how key events and individuals in design

Knowledge	 use their knowledge of a range of existing products to help generate their ideas; start to explain their choice of materials and components including function and aesthetics; explore different initial ideas before coming up with a final design; design innovative and appealing products that have a clear purpose and are aimed at a specific user identify features that will appeal to that customers; develop and follow a simple design criteria; 	 use a wider range of materials and components, including construction materials, textiles, mechanical and electrical components and ingredients, according to their functional properties and aesthetic qualities. select from and use a wider range of tools and equipment to cut, shape, join and finish accurately, explaining their choices 	 explore and evaluate existing products, explaining its purpose and whether it is designed well to meet the intended purpose. explore what materials/ingredients products are made from and suggest reasons for this. consider their design criteria as they make progress and alter their plans when needed. begin to consider the views of others and offer feedback evaluate their product against their original design criteria.
Vocabulary	Key vocabulary: research, design criteria, innovative, functional, appealing products, fit for purpose, intended user, features, customer, aesthetic, annotated sketches, cross sectional drawings, prototypes	Key vocabulary: cut, shape, score, join, assemble, materials, components, functional properites, aesthetics, mark, measure, cm, mm, hemming, finishing techniques, improve, appearance	Key vocabulary: explore, criteria, evaluate, product, purpose, user, needs, design, methods, strengths, areas for development, view, preference, reasons, improve, designer, manufacturer
Technical Knowledge	Materials and Construction Children apply their understanding of how to strengthen, stiffen and reinforce more complex structures.	Mechanisms	Textiles
Designer/Crafts Person/Cook	Sir Humphry Davy – Davy Lamp Thomas Eddison – bulb Arnold – contempory riot shields Cavemen - crafts people	Matthew Reinhart – pop up Christmas cards Ancient Eyptians - pullies Elisha Otis – pulley lifts	Greek Craft People Jimmy Choo – contempary shoe designer
Skills	 know how to measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques. use a range of techniques to shape mouldable materials (paper Mache and salt dough) 	use mechanical systems in their products and explain why it was chosen	Children can:

	 use safe ways of cutting materials including a junior hacksaw 		
Knowledge	Children can:	Children can: understand and explain how mechanical systems such as pulleys and pop ups create movement.	chose the textile according to their functional properties and appearance begin to develop an understanding of materials and ways they can be attached to each other (glue, tying, sewing) to make a simple product
Vocabulary	Key vocabulary: strengthen, stiffen, functional properties, aesthetic, material, reinforce, paper Mache, folding, corrugated, shape, measure, mark out, tools, equipment, function, construction, finishing, assemble, cutting, slots, suitable	Key vocabulary: pulley, rotation, spindle, motion, function, ratio, transmit, axle, annotated drawings, input, output, align, tabs,	Key vocabulary: fabric, textile, functional properties, template, attach, running stitch, basting stitch, blanket stitch, cross stitch, fastening, structure, finishing technique, strength, stitch, measure, protoype
Technical Knowledge	Food Children understand and apply the principles of a healthy and varied diet. They prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. They understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.	Electronics	
Designer/Crafts Person/Cook		Sir Humphry Davy – Davy Lamp Thomas Eddison - bulbs	
Skills	Children can: start to independently follow a recipe; prepare and cook a variety of predominantly savoury dishes safely and hygienically; use a range of techniques such as whisking, crushing, grating, cutting, kneading and baking;	Children can:	

	 learn to use a range of tools and equipment safely and appropriately, and learn to follow hygiene procedures; measure and weigh ingredients to the nearest gram and millilitre; with support, use a heat source to cook; present their product in an interesting way 		
Knowledge	start to know when (seasonality), where and how food is grown (such as herbs, tomatoes and strawberries) in the UK, Europe and the wider world; explain that a healthy diet is made up of a variety and balance of different food and drink,	start to understand that electrical systems have an input, process and output, and can be used to create a functional product	
Vocabulary	Key vocabulary: savoury, sweet, recipe, appearance, peeling, chopping, grating, mixing, spreading, kneading, whisking, baking, prepare, temperature, taste, texture, hygiene, safety, measure, gram, kilogram, oven, hob, cook, utensils, seasonality, recipe	Key vocabulary: circuit, fault, connection, battery, battery holder, bulb, wire, bulb holder, insulator, conductor, crocodile clip, control, program, system, input, output	

n Make Evaluate
Use research and develop design criteria to the design of innovative, functional, groducts that are fit for purpose, aimed ular individuals or groups. They generate, model and communicate their ideas discussion, annotated sketches, cross-land exploded diagrams, prototypes and extending their ideas; In can: use annotated sketches, cross-sectional drawings or exploded diagrams (possibly computer-aided design) to develop and communicate their ideas; Children can: with growing confidence, select from and use a wider range of tools and equipment to cut, shape, join and finish accurately, explaining their choices select from and use a wider range of tools and equipment to cut, shape, join and finish accurately, explaining their choices select from and use a wider range of tools and equipment to cut, shape, join and finish accurately, explaining their choices select from and use a wider range of materials and components, including construction materials, textiles, mechanical components and ingredients, according to their functional properties and aesthetic qualities. independently take accurate measurements and mark out cut, shape and score a range of materials with precision and accuracy. assemble, join and combine materials and components with accuracy. confidently select and use finishing, bridged the views of others to improve their work. They understand how key events and indesign adjusted the views of others to improve their work. They understand how key events and indesign and technology have helped shape the world.
 use annotated sketches, cross-sectional drawings or exploded diagrams (possibly computer-aided design) to develop and communicate their ideas; select from and use a wider range of tools and finish accurately, explaining their choices select from and use a wider range of materials and components, including construction materials, textiles, mechanical components and ingredients, according to their functional properties and aesthetic qualities. independently take accurate measurements and mark out cut, shape and score a range of materials with precision and accuracy. assemble, join and combine materials and components with accuracy.

Knowledge	 Use their knowledge of a broad range of existing products to help generate their ideas Use research to inform and develop a detailed design criteria for an innovative, functional and appealing product that is fit for purpose and aimed at a target market; design products that have a clear purpose and indicate the design features of their products that will appeal to the intended user; explain how particular parts of their products work and what tools they will need; consider the availability and costings of resources when planning out designs; apply their understanding of computers to program, monitor and control their products 		 Children can: complete detailed analysis of other products on the market. critically evaluate the quality of design, manufacture and fitness for purpose of products as they design and make. confidently consider the views of others and offer feedback evaluate their ideas and products against the original design criteria, making changes as needed evaluate the key events and designs of individuals in design and technology that have helped shape the world
Vocabulary	Key vocabulary: research, design criteria, innovative, functional, appealing products, fit for purpose, intended user, appeal, annotated sketches, cross sectional drawings, exploded diagrams, costings, enterprise, prototype	Key vocabulary: tools, equipment, cut, shape, join, assemble, finish, accurately, materials, components, construction materials, textiles, mechanical, ingredients, functional properities, aesthetic qualities, precision, finishing techniques, appearance	Key vocabulary: market, manufacture/r, innovate, sustainability, effective, designed, suitable, successful, improvement, intended, impact, products, functional, investigate, methods, analyse, existing, strengths, refine, views, developing, criteria, improve, evaluate, quality, inventor, designer

Techni	ical	Materials and Construction	Mechanisms	Textiles
Knowl	ledge	Children apply their understanding of how to strengthen, stiffen and reinforce more complex structures. They apply their understanding of computing to program, monitor and control their products.		
	ner/Crafts n/Cook	Thomas Bradshaw - the first UK carousel Charles Dare - The Flying Horse Viking Crafts People - Longboats Thomas Farnolls Pritchard - Designed The Iron Bridge Abraham Darby - Built The Iron Bridge	Designer: Jacques de Vaucanson is often regarded as the greatest mechanical toy crafter of all times	Anglo Saxon Purses – Crafts People Comtemporary: Fendi , Louis Vuitton , Dior
Skills		Children can: ensure that their product is strong and fit for the purpose (shape, bracing and own ideas) develop skills in nailing, drilling and sawing to create a product	use mechanical systems in their products and explain why it was chosen.	 Children can: use their own template demonstrate how to measure, tape, pin, cut, shape and join fabric with precision to make a more complex product. join textiles using a greater variety of stitches, such as backstitch, overcast/blanket stitch, hemming stitch, refine the finish using techniques to improve the appearance of their product, such as a more precise scissor cut after roughly cutting a shape.
Knowl	ledge	 ensure that materials chosen have both functional properties and aesthetic qualities; justify why they have chosen a specific material apply their understanding of computing to program, monitor and control a product. 	explain how mechanical systems, such as cams, create movement	 Children can: select a textile according to their functional properties and aesthetic qualities. think about how their product could be sold

Vocabulary	Key vocabulary: functional, suitability, aesthetic, procedures, accuracy, cutting, shaping, joining, finishing, accuracy, assemble equipment, techniques, measure, mark out, gluing, bracing, sanding, appropriate, finishing, combine, components	Key vocabulary: mechanism, linkage, pivot, slot, bridge, process, output, linear, rotary, oscillating, reciprocating	Key vocabulary: function, aesthetics, template, measure, tape, pin, cut, shape, join, complex, backstitch, overcast/blanket stitch, hemming stitch, appearance, commercialism, seam, seam allowance, wadding, reinforce, template, pattern, names of textiles, fastenings, pins, needles, applique, hemming
Technical Knowledge	Food Children understand and apply the principles of a healthy and varied diet. They prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. They understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.	Electronics	
Designer/Crafts Person/Cook	Phillip Harburn - First male TV chef 1946 Mary Berry - Traditional cook Jamie Oliver - School dinner influencer Nadiya Hussain - Great British Bake Off Heston Blumenthal - Michelin Star chef	John Spinello – designer of the buzzer game Operation	
Skills	 Children can: prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source; use a range of cooking techniques, such as griddling, grilling, frying and boiling; learn to use a range of tools and equipment safely, appropriately and accurately, and learn to follow hygiene procedures; adapt and refine recipes for appearance, taste, texture and aroma; 	Children can: use different types of circuits in their product confidently use a number of components in a circuit including a switch, bulb, buzzer and motor	

	 measure accurately and calculate ratios of ingredients to scale up or down from a recipe; independently follow a recipe present their product in an attractive form 		
Knowledge	Children can: • explain and give examples of food that is grown, reared and caught in the UK, Europe and the wider world; • understand about seasonality, how this may affect the food availability and plan recipes according to seasonality;	children can: understand that electrical systems have an input, process and output explain how adding a circuit has improved their product	
Vocabulary	Key vocabulary: reared, caught, seasonality, savoury, hygiene, heat, grilling, frying, boiling, refine, texture appearance, aroma, measure, ratio, recipe, temperature, nutrients, substitute, adapting, methods, prepare, cook, peeling, chopping, slicing, baking, melting, whisking, grating, blending, dietary, vegetarian, vegan, fishing	Key vocabulary: buzzer, motor, bulb, bulb holder, battery, battery holder, wire, insulator, conductor, crocodile clip, control, program, system, input, output, series circuit, parallel circuit	