	Explore	Design	Make - Construct	Make - Textiles	Make - Cooking	Evaluate
Year 1	Name and explore a	Create a design to	Use wheels and	Cut and join textiles	Measure and weigh	Talk about their
	range of everyday	meet simple design	axles to make a	using glue and	food items using	own and each
	products and	criteria	simple moving	simple stitches	non-standard	other's work,
	describe how they		model.		measures, such as	identifying
	are used.	Use design		Select and use a	spoons and cups	strengths or
	Identify products	software to create	Construct simple	range of materials,		weaknesses and
	that use electricity	a simple plan for a	structures, models,	beginning to	Using non standard	offering support
	to make them work	design	or other products	explain their	measures is a way	
	and describe how		using a range of	choices	of measuring that	A strength is a
	to switch them on	Select the	materials		does not involve	good quality of a
	and off.	appropriate tools		Using gluing,	scales (give	piece of work. A
		for a simple	An axle is a rod or	stapling or tying to	example of other	weakness is an
	Sort food into food	practical task	spindle that passes	decorate fabric	ways to measure)	are that can be
	groups by whether		through the centre	including buttons		improved
	they are from an	Select healthy	of a wheel to	and sequins	Fruit and veg are an	
	animal or plant	ingredients for	connect two wheels		important part of a	
	source.	cooking		Scissors are used to	healthy diet.	
			Electricity is a form	cut fabrics. Glue	Recommend 5 a	
	Specific tools are	Design criteria are	of energy. Many	and simple stitches	day.	
	used for particular	the explicit goals	household	i.e running for		
	purposes. Scissors	that a project must	appliances use	joining fabrics.	Origins of food –	
	for cutting, glue for	achieve.	electricity (give	Model the process	animals for meat	
	sticking.		examples). They can	of a running stitch.	and dairy. Plants for	
		Different materials	be switched on by		fruits and nuts.	
		can be used for	completing the	Fabrics can be		
		different purposes,	circuit to allow the	decorated using		
		depending on their	flow of electricity or	materials such as		
		properties i.e	off by breaking the	buttons and		
		cardboard is a	circuit.	sequins. They can		
		stronger building		be attached by		
		material than		sewing, gluing,		
		paper.		stapling or tying.		

	Explore	The importance of a product is to fulfil a goal and performs a useful purpose. Design	Make - Construct	Make - Textiles	Make - Cooking	Evaluate
Year 2	Explain why a	Design	Use a range of	Use different	Prepare ingredients	Explain how
	designer or		mechanism (levers,	methods for joining	by peeling, grating,	closely their
Finger puppets -	inventor is		sliders, wheels and	fabrics including	chopping and	finished products
textiles	important.		axels) in models or	glue and running	slicing.	meet their design
			products	stitch.		criteria and say
	Understand that				Describe the types	what they could
	different tools are		Create an	Add simple	of food needed for	do better in
	suitable for		operational, simple	decorative	a healthy and	future.
	different purposes		series circuit	embellishments	varied diet and	
	I.e scissors for			such as buttons,	apply the principles	Finished products
	paper		A mechanism is a device that takes 1	prints, sequins and applique.	to make simple, healthy meal	can be compared with design
	Understand that		type of motion or	'' '	,	criteria to see
	properties of		force and produces	To understand a	Healthy diet should	how closely they
	different materials		a different one. A	running stitch is to	include meat or	match.
	determine how		mechanism makes a	join fabrics and	fish, potatoes or	Improvements
	they can or cannot		job easier to do,	passing a needle in	rice, diary and small	can then be
	be used I.e shiny		including sliders,	and out at an even	amount of fat.	planned.
	material to paint.		levers, linkages,	distance.	Plenty of fruit and	
			gears, pulleys and		veg.	
	Structures can be		cams.			
	made stronger,				Identify the origins	
	stiffer and more		A series circuit is		of common foods	
	stable by using		made up of energy		(milk, eggs, meat,	
	cardboard rather		source (battery,		fruit and veg). Food	

than paper, using triangles instead of squares and broader bases.	cells, wires and bulb). Circuit must be complete for the electricity to flow.	comes from 2 main sources (animals and plants). Examples inc poultry, fish, milk, eggs, honey, fruit, veg, oils, sugar and nuts from plants.	
		Washing hands before handling food, cleaning surfaces, tying long hair back, storing food and wiping up spills.	

Work safely and hygienically in construction and cooking activities

Generate and communicate ideas through a range different methods (written, drawing, diagrams, modelling, speaking and using ICT) Select an appropriate tool for a task and explain their choice

Choose appropriate components and materials and suggest ways of manipulating them to achieve a desired effect.

Products can be improved in different ways, such as making them easier to use, more hardwearing or more attractive

	Explore	Design	Make - Construct	Make - Textiles	Make - Cooking	Evaluate
Year 3	Explore and use a	Plan which	Incorporate a	Cut and join wools,	Prepare and cook a	Suggest
	range of	materials will be	simple circuit into a	threads and other	simple savoury dish.	improvements to
	mechanisms –	needed for a task	model.	materials to a loom.		their products and
	levers, sliders,	and explain why.		Decorate a loom	Identify the main	describe how to
	axles, wheels and		Create a shell or	weaving using	food groups –	implement them,
	cams in models or		frame structure	embellishments,	carbs, protein,	beginning to take
	products.		using a diagonal	such as natural or	diary, fruit, veg, fats	the views of
			strut.		and sugar.	

Explain the silk flowers, tassels others into To understand how Identify and name similarities and and bows. account. a lever, slider, axle differences foods that are between the work and cam work and A loom is a piece of produced in Asking questions can help others to of 2 designers. their purpose. equipment that is different places. Based on a design used for making evaluate their fabric by weaving products, such as criteria I.e visual An electric circuit To know impact, fitness for can be used in a wool or thread. preparation asking them model, such as Weaving is techniques for whether the purpose, target savoury dishes inc lighthouse, it can be interlacing pieces of selected materials market achieved the controlled using a wool. peeling, chopping, deseeding, slicing, Describe how key purpose of the switch. events in DT have dicing, grating, model. To understand shell shaped the world mixing and and changed the structures are skinning. hollow, 3D way people live. structures with a Food that grow in thin outer covering particular areas such as a box, frame depends on factors such as rainfall, structures are made climate, soil type I.e from thin rigid components such as Potatoe and Sugarbeet grow in a tent frame. This gives a structure the SE of England. shape and support. Wheat, barley, veg grow well in the Specific tools can be East of England used for cutting I.e saws. Wood can be joined using glue, staples, nails or a combination. Safety rules are

	n criteria to inform a design a ly for cutting and joining mate			goals to be successful.		
	Explore	Design	Make - Construct	Make - Textiles	Make - Cooking	Evaluate
Year 4	Create and complete a comparison table to compare 2 or more products. Explain how and why significant designer or inventor shaped the world.	Investigate and identify the design features of a familiar product. Use annotated sketches and exploded diagrams to test and communicate ideas.	Work safely with every day chemical products under supervision such as disinfectant and handwash. Explore and use a range of mechanisms (levers, axles, cams gears and pulleys) in	Hand sew a hem or seam using a running stitch. Choose from a range of materials showing an understanding of their different charactistics. Create detailed	Identify a range of cooking techniques to prepare a simple meal or snack. Design a healthy snack or pack lunch and explain why it is healthy. Identify and name foods that are	Identify what has worked well and what aspects of their products could be improved, acting on their own suggestions and those of others when making improvements.
	Know that chemicals carry a hazard symbol and should be used under adult supervision and appropriate PPE.	Prototype shell and frame structures showing awareness how to strengthen stiffen and reinforce them. To know the important features of a product eg	models or products. Incorporate circuits that use a variety of components into models or products. Write a programme to control a physical	decorative patterns on fabric using printing techniques. To know a hem runs along the edge of a piece of cloth or clothing. Made by turning under a raw edge and	produced in different places in the UK. To know ingredients, taste better and are cheaper when in season.	Evaluation can be done by considering whether the product does what it was designed to do, whether it has an attractive appearance, what

r	material or	device (light,	sewing to give a	To know different	changes were
S	structure.	speaker or buzzer)	neat finish.	techniques such as	made during the
				baking, boiling,	making process
Ι	Γo understand	Mechanisms can be		frying, grilling and	and why the
a	annotated sketches	used to add		roasting.	changes were
a	and exploded	functionality to a			made. Evaluation
C	diagrams show a	model.		To know what a	also includes
S	specific part of a			healthy snack is	suggesting
C	design, highlight	Components can be		including	improvements
S	sections or show	added to circuits to		wholemeal,	and explaining
f	unctions –	achieve a particular		skimmed and low-	why they should
C	communicating in a	goal.		sugar alternatives.	be made.
V	isual way.				
				To know areas of	
Т	Γo understand a			the world, have	
	prototype is a			conditions suited	
	mock-up of a			for certain crops.	
	design that will				
	ook like the				
	inished product				
	out may not be full				
	size or made with				
t	the same materials.				
	A comparison table				
	can be used to				
	compare products.				
Select name and use tools					

Select, name and use tools.

To know what tools are useful for cutting and joining I.e. craft knife, junior hacksaws, glue guns

To know that materials and components have a range of properties making them suitable for different tasks. Selecting correctly depending on design critera.

Ī	Explore	Design	Make - Construct	Make - Textiles	Make - Cooking	Evaluate

Year 5	Explore function	Explain how the	Use mechanical	Combine stitches	Use an increasing	Test and evaluate
	and purpose of	design of a product	systems in their	and fabrics with	range of	products against a
	safety features on	must be influenced	products, such as	imagination to	preparation and	detailed
	products.	by the culture or	pneumatics.	create a mixed	cooking techniques	specifications and
		society in which		media collage.	to cook a sweet or	make adaptations
		designed or made.	Use electrical		savoury dish.	s they develop the
			circuits of increasing	Select and combine		product
		Use pattern pieces	complexity in their	materials with	Describe what	
		and computer-	models or products,	precision	seasonality means	Test a product
		aided design	showing an		and explain some of	against the design
		packages to design	understanding of	Use applique to add	the reasons why it	criteria will
		a product.	control	decoration to a	is beneficial.	highlight anything
				product or artwork.		that needs
			Electrical circuits		Sweet dishes are	improvement or
			can be controlled by		usually desserts,	redesign. Changes
			a simple on/off		such as cakes, fruit	are often made to
			switch, or by a		pies and trifles.	design during
			variable resistor		Savoury dishes	manufacture.
			that can adjust the		usually have a salty	
			size of the current in		or spicy flavour	
			the circuit.		rather than a sweet	
					one.	
			Various methods			
			can be used to		A balanced diet	
			support a		gives your body all	
			framework. These		the nutrients it	
			include cross		needs to function	
			braces, guy ropes		correctly. This	
			and diagonal struts.		means eating a	
			Frameworks can be		wide variety of foods in the correct	
			built using lolly			
			sticks, skewers and		proportions	
			bamboo canes			

					Seasonality is the time of year when the harvest or flavour of a type of food is at its best. Buying seasonal food is beneficial for many reasons	
Name and sele		riate tools for a task and use		1	T	1
	Explore	Design	Make - Construct	Make - Textiles	Make - Cooking	Evaluate
Year 6		Develop design criteria for a functional and	Explain and use mechanical systems in their products to	Pin and tack fabrics in preparation for sewing and more	Follow a recipe that requires a variety of techniques and	Demonstrate modifications made to a
		appealing product that is fit for purpose,	meet a design brief Select the most	complex pattern work	source the necessary ingredients	product as a results of ongoing in evaluation by
		communicating ideas clearly in a	appropriate materials and	Choose the best materials for a task,	independently.	themselves and to others.
		range of ways	frameworks for different structures,	showing an understanding of	Plan a healthy daily diet, justifying why	Design is an
		Design criteria should cover the intended use of the	explaining what makes them strong.	their working characteristics.	each meal contributes towards a balanced diet.	iterative process, meaning alterations and
		product, age range targeted and final appearance. Ideas	Mechanical systems can include sliders, levers, linkages,	Use different methods of fastening for	Explain how organic produce is grown.	improvements are made continually throughout the
		can be communicated in a	gears, pulleys and cams. Other	function and decoration,	Ingredients can	manufacturing process.
		range of ways, including through	mechanisms include pneumatics and	including press studs, Velcro and	usually be bought at supermarkets,	Evaluating a product while its
		discussion, annotated sketches, cross-	hydraulics.	buttons.	but specialist shops may stock different items.	being manufactured ad explaining these

	sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.	Strength can be added to a framework by using multiple layers	Pinning with dressmaker pins and tacking with quick, temporary stitches holds fabric together in preparation for and during sewing	Eating a balanced diet is a positive lifestyle choice that should be sustained over time Organic produce is food that has been grown without the use of man-made fertilisers, pesticides, growth regulators or animal feed additives. Organic farmers use crop rotation, animal and plant manures, handweeding and biological pest control	evaluations to others can help to refine it.
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Select appropriate tools for a task and use them safely and precisely.

Precision is important in producing a polished, finished product. Correct selection of tools and careful measurement can ensure the parts fit together correctly.

It is important to understand the characteristics of different materials to select the most appropriate material for a purpose. This might include flexibility, waterproofing, texture, colour, cost and availability.

	Explore	Design	Make - Construct	Make - Textiles	Make - Cooking	Evaluate
EYFS			Cut, tear, fold and	Safely use and	Using a range of	
Cooking – Cracker			stick a range of	explore a variety of	small tools	
Faces (cooking)			papers and fabrics	materials, tools and	effectively including	
				techniques,	cutlery	
				experimenting with		

Celebration	Safely use and	colour, design,	Suggest healthy
decoration	explore a variety of	texture, form and	ingredients that can
(construction)	materials, tools and	function.	be used to make
	techniques,		simple snacks.
Collaboration	experimenting with	Use a range of	
street	colour, design,	small tools,	Safely use and
(construction)	texture, form and	including scissors.	explore a variety of
	function.		materials, tools and
Bridge for the troll			techniques,
(construction)	Use a range of small	Weaving	experimenting with
	tools including		colour, design,
	scissors		texture, form and
			function.
			Use a range of small
			tools, including
			cutlery.

Skills – black

Knowledge - Blue