

	Design	Make	Evaluate	Technical Knowledge	Cooking and Nutrition
EYFS	Talk about what they want to	Make models of their own choosing.	ldentify success and next steps.	Build structures/models and	Select and use appropriate tools
	make.			attach/join resources together	needed for a recipe.
		Explore making, with different	Change their strategy as needed,	using a range of materials	
	Make observations about the	equipment including new ways of	e.g- rearranging materials.	such as tape, glue, string, split	Use tools effectively and safely
	features of object.	joining (e.g. split pins,		pins, etc.	(stir, spread, knead, chop).
		staples, tags, string.	Talk about features of their		
	Use their senses to explore and		creations.	Can identify which joining	Identify and use the appropriate
	describe objects.	Explain what they are making.		materials are best to use after a	ingredients for a recipe.
		Select appropriate resources,	Share their creations, explaining	trial and error approach.	
	Think of some ideas of their own.	materials and tool.	the process they have used.		Complete basic hygiene tasks (e.g.
				Can use small construction	wash hands).
	Plan how best to approach a task.	Name and explain which tools they	Can build towers, arches and	materials to build (lego), adding	
		are using and why.	other structures by balancing	moving parts such as wheels.	Talk about foods they like and
	Represent their ideas through		materials and judging other		dislike with reasons.
	drawings, labels and captions.	Use tools safely.	elements such as weight and	Use technical vocabulary such as	
		l	shape.	join, attach, create, design.	Discuss the food that they eat
	Make a list of resources they will	Use tools to manipulate materials			during special occasions or
	need.	(use scissors or a knife to cut).		Be aware that ingredients are	cultural celebrations (e.g.
				available from a range of sources	birthday, Chinese New Year,
				(shops, markets, grown at home.	etc.).
					Be willing to try new foods.
					Understand the importance of
					healthy food choices such as
					fruits and vegetables.
Year I	Generate ideas from their own	Follow basic safety rules with	Explore existing products explaining	Talk about materials and	Discuss and develop an awareness
	experience.	support.	what they like and dislike.	mechanisms in familiar products.	of where food comes from.
					(1)
	Begin to understand and meet a	Join two materials together with	Recognise what they have done	Begin to understand and use the	Have an awareness of hygiene
	single design criteria.	different methods, e.g. glue, staples, pins.	well and talk about what could be improved.	term component.	and safety.
	Talk about their ideas and say			Explore and use levers and sliders	Measure using teaspoons,
	what will be done.			'	tablespoons etc.



	Make a list of materials and tools they will need. Draw pictures of what they want to do with labels and some text. Generate and develop a mock up product. Use sliders and levers in plans.	Use scissors or a knife to cut, sometimes with help or using a simple template. Make simple models not necessarily with a purpose. Use simple construction kits e.g lego.	With support evaluate their product in relation to the design criteria.		Begin to understand the benefits of fruit and vegetables. With close supervision, use the bridge hold to cut harder foods using a serrated vegetable knife (eg apple pieces).
Year 2	Generate ideas and plan what to do next using their experience of materials and components. Use plans with labels, lists and technical vocabulary to show how to put their ideas into Practice. Understand and meet a single design criteria. Use their knowledge of some working characteristics of materials when designing. Use wheels and axles in plans	Follow basic safety rules. Measure out and cut materials independently. Begin to select tools for cutting, shaping, joining and finishing. Select tools, materials and techniques from a selection, appropriate to the job.	Explore existing products explaining what they like and dislike and what is useful/not useful. Recognise what they have done well and talk about what could be improved. Evaluate their product in relation to the design criteria.	Identify materials and mechanisms in familiar products. Understand and use the term component. Explore how structures can be made stronger, stiffer and more stable. Explore and use wheels and axles.	Have an awareness of where food comes from. Know about hygiene and safety. Measure using simple scales or balances. Know the benefits of healthy food With close supervision, use the bridge hold to cut harder foods using a serrated vegetable knife (eg apple pieces). Understand and use the term ingredient.
Year 3	Generate ideas using their prior knowledge of materials and processes e.g. Science and Art. Create annotated sketches with technical vocabulary and a brief	With support identify potential risks and how to avoid them. Measure and cut out in precise detail.	Investigate a range of products to see how they work. Say how the product will be useful to the user.	Apply what they know about materials and joints to strengthen, stiffen and reinforce structures. Apply what they know about mechanisms to create movement	Know where ingredients have come from. Understand main rules of food hygiene.



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	description of their method. (Use	Select appropriate tools for cutting,	Seek out the views and judgements	when planning and designing	Follow a recipe, weighing out
	ICT where possible).	shaping, joining and finishing.	of others.	(levers and linkages).	ingredients appropriately.
	Begin to research and develop	Make separate elements of a model	Evaluate their product in relation	Apply what they know about	Begin to recognise how eating
	simple design criteria.	before combining into the finished	to the design criteria and explain	electrical systems in their	different food groups creates a
		article.	how it has been successful and	products, e.g. electrical circuits.	varied diet.
	Design products that are		how it could be improved.		
	functional and purposeful.	Begin to select materials according	'		Select and use appropriate
		to their function and appearance.			tools/skills when mixing, slicing,
	Research products using the	, ii			spreading etc.
	internet.	Make finished products neat and			
		tidy.			With close supervision, use the
					claw grip to cut soft foods using
					a serrated vegetable knife (eg
					tomato).
Year 4	Research existing products,	Identify potential risks and discuss	Test and evaluate commercial	Apply what they know about	Understand where and how
7 0001	materials and techniques to help	how to avoid them.	products, describing how a	mechanisms to create movement	ingredients have been produced.
	generate their ideas.		commercial product works.	when planning and designing.	urigi cascina nare peri pi cascicca.
	garan are tradi	Measure and cut out using	Continue Casa produces wereco.	Throat poor storing contact according to	Understand main rules of food
	Research and develop simple design	centimetres and weigh in grams.	Can alter and adapt original	Apply what they know about	hygiene.
	criteria.	Certained es and weight at grants.	plans following discussion and	materials and joints to strengthen,	riggierie.
	Criticitus.	Suggest and select appropriate tools	evaluation.	stiffen and reinforce complex	Begin to select their own
	Create annotated sketches and	for cutting, shaping, joining and	evaluation.	structures.	ingredients when cooking or
	cross section diagrams with	finishing.	Evaluate their product in relation	sir actures.	baking.
	technical vocabulary (Use ICT	Junistung.	to the design criteria and explain	Use scoring and folding for	baking.
	where possible.	Combine a number of components	how it has been successful and	precision.	Recognise how eating different
	writer e possibile.	together in different ways.	how it could be improved.	precision.	food groups creates a varied diet.
	Write a brief description of their	l logerier in all Jereni ways.	now it could be improved.	Apply rule at the system and a heart	Jood groups creates a varied alet.
		Calcat magtanials assembles to the in-		Apply what they know about	Colort and our annuaries
	method, showing the order of	Select materials according to their	I le donatan di la sur kon avanta	electrical systems in their	Select and use appropriate
	working in plans	function and appearance.	Understand how key events and	products, e.g. different individual	tools/skills when mixing, slicing,
			individuals helped shape the world	components.	spreading etc.
		Make sure that completed products	in which we live (e.g. George		\^(\frac{1}{2} \)
		are carefully finished	Stephenson).	Apply their knowledge of	With close supervision, use the
				conductors and insulators.	claw grip to cut soft foods using
					a serrated vegetable knife (eg
					tomato).



Year 5	C-III-+		Total and makes	A	Understand where and how
rear 5	Collect and use information from	Identify potential risks and explain how to avoid them.	Test and evaluate commercial	Apply what they know about mechanisms to create movement	
	a target group to generate ideas.	now to avoid them.	products, understanding how this		ingredients have been grown,
	D I I I I I I I	M	information supports their own	when planning and designing.	reared and processed, discussing
	Research and develop multiple	Measure accurately to centimetres	designs.		seasonality and fair trade.
	design criteria.	and grams.		Apply what they know about	F 1 . 6 11
			Develop their designs through their	materials and joints to strengthen,	Evaluate food by taste, texture,
	Create ongoing annotated plans	Combine materials for strength and	own reflection and the evaluation	stiffen and reinforce complex	flavour, health benefits etc.
	and exploded diagrams, which are	to improve how the product looks.	of others.	structures in a variety of ways.	
	adapted as work progresses. (Use	1			Adapt an existing recipe to design
	ICT where possible).	Use permanent and temporary	Carry out tests before making	Understand how wheels, axels,	their own dish.
		fastenings to join with a greater	improvements.	turning mechanisms, hinges and	
	Produce step by step plans,	range of techniques e.g.		levers all work together.	Prepare a range of
	thinking ahead to the order of	Staples.	Identify where evaluation has led		predominantly savoury dishes.
	their work.		to improvement.		
					Understand food hygiene and
	Calculate the amount of		Understand how key events and		safe food storage.
	materials needed, use this to		individuals helped shape the world		
	estimate cost.		in which we live (e.g. Tyne		With close supervision, use the
			Bridge).		claw grip to cut soft foods using
	Generate, develop, model and				a serrated vegetable knife (eg
	communicate their ideas through				tomato).
	prototypes and pattern pieces.				
Year 6	Collect and use information from	ldentify potential risks and explain	Test and evaluate commercial	Apply what they know about	Understand where and how
	a target group to generate ideas,	how to avoid them.	products, understanding how this	mechanisms to create movement	ingredients have been grown,
	taking the user's views.		information supports their own	when planning and	reared and processed, discussing
		Measure accurately to centimetres	designs.	designing (gears, pulleys and	seasonality and fair trade.
	Research and develop multiple	and grams.		cams).	
	design criteria to meet an		Use robust testing to improve		Evaluate food by taste, texture,
	identified need by selecting	Make informed choices of tools and	models and finished products,	Apply what they know about	flavour, health benefits etc.
	ingredients or materials.	materials based on function and	documenting and evaluating the	materials and joints to strengthen,	
		aesthetics.	process.	stiffen and reinforce complex	Adapt an existing recipe to design
	Create ongoing annotated plans			structures in a variety of ways.	their own dish.
	and prototypes, which are adapted	Justify their choices of tools,	Refine the quality of the finished		
	as work progresses. (Use ICT	materials and techniques.	product, including making	Add electricity to create motion,	Prepare a range of
	where possible).		annotations on the design	sound or light.	predominantly savoury dishes.
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Use additional sketches to show	Use their knowledge of mechanical	Work in a safe and hygienic
other ways of doing things and	systems in products (gears, cams	way.
use these to justify choices.	and pulleys).	
		With close supervision, use the
Produce step by step plans,	Use their knowledge of computing	claw grip to cut soft foods using
thinking ahead to the order of	to program, monitor and control	a serrated vegetable knife (eg
their work.	products.	tomato).
Calculate the amount of		Understand seasonality, and know
materials needed, use this to		where and how a variety of
estimate cost.		ingredients are grown, reared,
		caught and processed.
Make more complex designs to		
include a combination of other		Use proportions when cooking by
mechanisms.		doubling and halving recipes