



		DT Progression Document									
Strand COOKING AND NUTRITION Where food comes from Food preparation, cooking and nutrition	EYFS Make healthy choices about food, drink, activity and tooth brushing. To understand what helps a (edible) plant to grow. Learn what recipes are and follow these steps to create a dish (adult led).	A year 1 designer Know that all food comes from plants or animals. Identify and sort food into groups. Prepare simple dishes safely and hygienically, without using a heat source.	A year 2 designer Food has to be farmed, grown elsewhere (eg home) or caught). Identify origin of common foods, i.e milk, eggs etc Prepare simple dishes safely and hygienically, without using a heat source. Know that everyone should have 5 portions of fruit and vegetables every day.	Linderstand where food comes from and sort into groups, prepare dishes without using a heat E of source and know about having 5 portions of fruit/vegetables every day.	A year 3 designer A healthy diet is made up from a balance of different food and drink Identify food groups & food grown in different countries. Know food is grown, reared or caught in the UK, Europe and wider world. Know about a range of fresh and processed ingredients for the product and whether it is grown, reared or caught.	A year 4 designer Follow the main stages of a recipe listing ingredients, utensils and equipment. Identify a range of simple cooking techniques eg. baking, boiling, frying, roasting. Know that recipes can be adapted to change the appearance, taste, texture and aroma.	ent Understand what a healthy diet looks like and identify food groups, understand where food n in p seasonality of food. To be able to plan a recipe and identify different simple cooking techniques Understand that recipes can be adapted.	A year 5 designer Use an increasing range of utensils and equipment for preparation and cooking techniques (baking, boiling, frying, roasting) to cook a sweet or savoury dish. Evaluate meals & consider if they contribute towards a balanced diet.	A year 6 designer Plan a recipe to create a dish with hot and cold elements (such as chilli, rice and salsa), research existing products, plan ingredients and visit supermarket to source food and work within a budget. Ensure a variety of skills are used such as chopping, slicing, mixing and using a heat source. Understand how organic produce is grown.	<ul> <li>Using more advanced utensils and equipment when preparing and cooking food and evaluate meals, specifically looking at whether they contribute to a balanced diet. Follow recipes and research existing products, plan ingredients and visit supermarket to source food.</li> <li>Understand how organic produce is grown.</li> </ul>	
				vithout using a heat	caught. Understanding seasonality in relation to food and why it's beneficial.		stand where food /caught, understand le cooking techniques.			y food and evaluate ollow recipes and :e food.	



## Building resilience, ambition and respect



TECHNICAL KNOWLEDGE - Mechanisms - Structures - Textiles - Electrical systems	Explore how things work. Explore different materials freely, in order to develop their ideas about how to use them and what to make.	I can make a simple model using a slider and lever. Know and use technical vocabulary relevant to the project (pivots) Understand how freestanding structures can be made stiffer and more stable	Explore and use wheels, axles and axle holders. Distinguish between fixed and freely moving axles Know and use technical vocabulary relevant to the project (chassis, cab, vehicle) Know that a 3D textiles product can be assembled from 2 identical fabric shapes.	Develop skills to make and understand sliders, levers, wheels, axles and axle holder. Kn understand how freestanding structures can be made stiffer/more stable. Know and us technical vocab and know how to assemble a 3D textile product.	Develop and use knowledge of how to construct strong, stiff shell structures Develop and use knowledge of nets of cubes and cuboids	Understand and use lever and linkage mechanisms. Distinguish between fixed and loose pivots Know that a single fabric shape can be used to make a 3D product. Understand how to securely join two pieces of fabric together. Understand the need for patterns and seam allowances. Understand how to combine an electrical	Develop knowledge of how to make a structure strong and use cube and cuboid nets ki Use levers and linkage mechanisms. Develop further textiles skills such how to join and product. Understand how to use electrical circuits with a design brief.	Understand how gears and pulleys can be used to speed up or slow down. Understand how to strengthen, stiffen and reinforce 3-D frameworks.	Understand how cams, pulleys, gears can make something move (eg. moveable bridges). Understand how gears and pulleys can be used to change direction A 3-D textile product can be made from a combination of accurately made pattern pieces, fabric shapes and different fabrics. Fabrics can be strengthened, stiffened and reinforced where appropriate. Understand and use electrical	Understand how a variety of mechanisms can move and/or change the speed/direction of a product. Understand how to strengthen a 3D framework. Develop textiles skills and electrical circuits with a variety of components.
				de holder. Know and Know and use relevant		Understand how to combine	bo to		Understand and	ed/direction of a kills and electrical





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DESIGNING Understanding contexts, user and purpose Generation of ideas Use of ICT	Develop their own ideas and then decide which materials to use to express them.	Create a simple design to meet a simple design criteria. Make a simple plan/draw a picture of intended design. Generate & label ideas using ICT.	Create a simple design to meet a simple design criteria then plan what to do next. Develop model and communicate their ideas through talking, mock ups and drawings. Make a simple plan/draw a picture of intended design and label it using ICT.	Create and develop ideas and plan designs with next steps. Use IT to plan/draw and label designs.	Use ideas from other people when designing Use annotated sketches to communicate ideas Develop design criteria to inform a design, eg. use, appearance, cost. Use ICT to create a labelled design/ plan with increasing detail	Generate realistic ideas and design criteria collaboratively through discussion, focusing on the needs of the user and the purpose of the product Incorporate circuits and electrical component into design brief (eg Earthquake warning system)	Use others' designs and ideas to develop own product design focusing on the needs of the user and purpose of the product. Continue to use IT in the designing process and begin incorporating electrical circuits into the product design.	Develop ideas through the analysis of existing products Use annotated sketches, cross sectional drawings & exploded diagrams to test and communicate my ideas. Produce a detailed step-by- step plan. Carry out research using surveys, interviews, questionnaires and web- based resources.	Identify the wants, needs preferences and values of particular individuals or groups. Independently develop design criteria for a functional and appealing product that is fit for purpose, communicating ideas clearly in a variety of ways. Model ideas using prototypes and pattern pieces. Incorporate circuits and electrical components into a design brief (eg. alarm system to protect crown jewels)	Identify the wants, needs preferences and values of particular individuals or groups and independently ensure the design criteria is fit for purpose through research such as surveys and questionnaires. Model ideas using prototypes and pattern pieces. Continue to incorporate circuits and electrical components into a design brief.





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	Use large	Use simple	Use simple	st jo U	Select from and	Select fabrics	ם ה' ה	Make, decorate	Select the most	
MAKE	muscle	utensils to cut	utensils and	Use sim joining structui	use appropriate	and fastenings	Develop joining food	and present the	appropriate	lak nic des
Planning (select tools)	movements to	food safely.	equipment to	Use simple joining by . structures.	tools with some	according to	lop 1g	food for an	materials for	e, c opi 'r h 'r h
Choosing materials	paint and		peel, cut, slice,	ple by s es.	accuracy to cut,	their functional	un & fi	intended user and	tasks &	iat 'mu
	make marks.	Practical tasks	grate and chop	uter sewir Use	score, shape and	characteristics.	ide	purpose. (ie Jam).	frameworks for	ora e to :sav :sav
		such as marking	safely.	ıple utensi by sewing res. Use fir	join paper and		rsto		different	te c bols NS i ng s
	Choose the	out (template),		ils o 1 ar nis	card.	Joining &	ana g s	Formulate a clear	structures;	ana Sea
	right resources	cutting, joining	Perform	nsils and o ng and st finishing		finishing using a	ling kills	plan and list of	explaining what	Make, decorate and pr appropriate tools, mate junior hacksaws and a l sides by making seams,
	to carry out	and finishing	practical tasks	l eq tap	Use finishing	variety of	i of s us	resources.	makes them	ese eric har , se
	their own plan.	with glue or	such as marking	Use simple utensils and equipment to prepare joining by sewing and stapling. Explain choice structures. Use finishing techniques from art a	techniques	techniques	fat		strong showing	sent the food for an in rials and frameworks and drill for making s sewing curved edges,
		tape.	out (template),	ome g. E niq	suitable for the	(stitching ie	pric a	Select and use	an understanding	the ana drill ng c
	Use one		cutting, joining	ent Exp ues	product they are	blanket stitch,	s a var	from appropriate	of their working	fo
	handed tools	Cutting	& finishing by	to fra	creating	over sew,	nd . iety	tools (eg junior	characteristics	od j nm vea
	and	accurately &	sewing (running	to pre 'ain ch from		running and	fas 1 of	hacksaws, clamps	e.g. their	for ewo aki l ed
	equipment, for	safely with	stitch) and	pai loic art	Explain their	backward).	ten <sup>:</sup> te	& bench hooks) to	flexibility,	an ork ng
	example,	scissors.	stapling.	re f :e o	choice of		ing chn	measure, mark	waterproofing,	inte s fo stro s, te
	making snips			ooc d a	materials	Use of needles,	o understanding of fabrics and fastenings and & finishing skills using a variety of techniques.	out, cut, shape	appearance,	enc ir d uct ack
	in paper with		Explain why I	is and equipment to prepare food safely. Perform pract and stapling. Explain choice of textiles, materials and to hishing techniques from art and design such as painting.	according to	thread, pins and	nd 'es.	and join	availability	Make, decorate and present the food for an intended user and purpose and formulate a plan and list of r appropriate tools, materials and frameworks for different structures and be able to explain their choices. junior hacksaws and a hand drill for making structures. Develop joining, finishing and sewing techniques sides by making seams, sewing curved edges, tacking & attaching wadding.
	scissors.	Select and use a	have chosen	ıfel les, gn	functional	scissors	use Kn	construction		use ren S. L
		range of	specific textiles,	y. F suc	properties and		e th ow	materials to make	Use wire	er a It si Dev atta
	Make	materials and	materials and	Perf ate	aesthetic		is k an	frameworks.	strippers, junior	ind truc ach
	imaginative	begin to explain	tools and	ı. Perform materials such as pa	qualities		nov d u		hacksaws and a	pu pu pjc
	and complex	choices.	explain why.	n p 's a			wle ise		hand drill for	rpo res wa
	'small worlds'			n practical t and tools. ninting.	Know and use		apt	Select materials	making	se an ng, nda
	with blocks	Assemble, join	Fold paper or	ticc too g.	appropriate		e to proj	and components	structures.	anc d b fin fing
	and	and combine	card in different	al to	equipment and		o ch oric	according to		t fo e al ish
	construction	materials and	ways to make	Fol	utensils to		oo; ite	functional	Develop joining &	rm 5le ing
	kits.	components.	free standing	ile I d a	prepare and		se r equ	properties and	finishing	ula an
			structures,	nd	combine food		nat	aesthetic	techniques-	te o exp d si
			using masking	ioir			nei	qualities.	selecting	a pi laii ewi
			tape to make	suc n pc			als nt c		equipment &	an 'n th 'ng
			joins.	th c			apı ınd		developing	anı Ieir tec
				r/c			oro ute		sewing skills	d lis hn
			Use finishing	nak ard			prii ens		(sewing needles	st o iqu
			techniques,	to			ate ils i		and sewing	f re es. es s
			including those from art and	practical textile I tasks such as making template, cutting, and tools. Fold and join paper/card to make free standing inting.			Develop understanding of fabrics and fastenings and use this knowledge to choose materials appropriately. Continue to develop joining & finishing skills using a variety of techniques. Know and use appropriate equipment and utensils to prepare and combine food		machine).	Make, decorate and present the food for an intended user and purpose and formulate a plan and list of resources. Select appropriate tools, materials and frameworks for different structures and be able to explain their choices. Use wire strippers, junior hacksaws and a hand drill for making structures. Develop joining, finishing and sewing techniques such as Joining right sides by making seams, sewing curved edges, tacking & attaching wadding.
			design	ıpla e fr			ont. epa		Joining right sides	rces wire as
			-	ite, .ee			inu		by making seams,	s. Su e st Ioin
				, cutting, standing			e tı anı		sewing curved	elec rip, ring
				nd			1 cc		edges, tacking &	ct J rig
				g, ing			eve		attaching	s, ght
							develop combine		wadding. Where	
							10		possible use	



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									of time, resources and cost.	
EVALUATE Existing products/designers Own products	Return to and build on their previous learning, refining ideas and developing their ability to represent them. Create collaboratively, sharing ideas, resource and skills.	Explain what went well and how it can be improved. Describe how something/an existing product works.	Talk about their own work & others work, identifying strengths and area for development e.g. their peers, professional craftspeople. Describe similarities and differences between their own work and others work.	Discuss their own and peers' work identifying strengths and areas of development and describe similarities and differences.	Investigate/ explain how an existing product is fit for purpose/ target market and how it benefits the user Suggest improvements to products made and describe how to implement them, taking into account others views. Explain the similarities and differences between the work of 2 designers & craftspeople.	Test and evaluate their own product against design criteria and the intended user and purpose. Explain how a significant designer/ inventor changed the world.	Investigate, test, evaluate and explain how their design and existing designs are fit or unfit for purpose. Suggest improvements to products and describe how to implement them. Explain the similarities/differences between the work of 2 designers & craftspeople.	Explain how an existing product appeals to a particular audience. Suggest alternative plans, outlining the positive features and draw backs. Test and evaluate my product/designs against original criteria e.g. appearance & function and adapt them as I develop my product/design. Analyse how inventions and products have changed people's lives	Evaluate the final product with reference back to the design brief (Mexican food). Present a detailed account of the significance of a designer/inventor e.g. benefit to the environment, health or transport.	Explain how existing products appeal to particular audiences. Suggest alternative plans, outlining the positives and negatives features. Test and evaluate my product/designs against original criteria and adapt them as I develop my product/design. Analyse how inventions and products have changed people's lives and create detailed accounts of this. Evaluate the final product (food) with reference