actioning and a second	EYFS	YEAR ONE	YEAR 2	END OF KEY STAGE EXPECTATIONS	YEAR THREE	YEAR FOUR	YEAR FIVE	YEAR SIX	END OF KEY STAGE EXPECTATIONS
Design	*Select appropriate resources *Use gestures, talking and arrangements of materials and components to show design * Use contexts set by the teacher and myself. *Use language of designing and making (join, build, shape, longer, shorter, heavier etc.)	* Have own ideas * Explain what I want to do * Explain what my product is for, and how it will work * Use pictures and words to plan, begin to use models * Design a product for myself following design criteria * research similar existing products	* Have own ideas and plan what to do next * explain what I want to do and describe how I may do it * Explain purpose of product, how it will work and how it will be suitable for the user * describe design using pictures, words, models, diagrams, begin to use ICT * design products for myself and others following design criteria * choose best tools and materials, and explain choices * use knowledge of existing products to produce ideas	*Design purposeful, functional, appealing products for themselves and other users based on design criteria *Generate, develop, model and communicate their ideas through talking, drawing, templates, mockups and, where appropriate, information and communication technology	*Begin to research others' needs *Show design meets a range of requirements * Describe purpose of product * Follow a given design criteria * Have at least one idea about how to create product * Create a plan which shows order, equipment and tools *Describe design using an accurately labelled sketch and words * Make design decisions * Explain how product will work * Make a prototype * Begin to use computers to show design.	* Use research for design ideas * Show design meets a range of requirements and is fit for purpose *Begin to create own design criteria *have at least one idea about how to create product and suggest improvements for design. * Produce a plan and explain it to others *Say how realistic plan is. *Include an annotated sketch *Make and explain design decisions considering availability of resources *Explain how product will work * Make a prototype *Begin to use computers to show design.	*Use internet and questionnaires for research and design ideas *take a user's view into account when designing * Begin to consider needs/wants of individuals/groups when designing and ensure product is fit for purpose *Create own design criteria * Have a range of ideas *Produce a logical, realistic plan and explain it to others. *Use cross-sectional planning and annotated sketches *Make design decisions considering time and resources. *Clearly explain how parts of product will work. *Model and refine design ideas by making prototypes and using pattern pieces. *Use computer-aided designs	* Draw on market research to inform design * Use research of user's individual needs, wants, requirements for design * Identify features of design that will appeal to the intended user * Create own design criteria and specification * Come up with innovative design ideas *follow and refine a logical plan. *Use annotated sketches, cross sectional planning and exploded diagrams * Make design decisions, considering, resources and cost * Clearly explain how parts of design will work, and how they are fit for purpose * Independently model and refine design ideas by making prototypes and using pattern pieces * Use computer-aided designs	*Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at individuals or groups *Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross sectional and exploded diagrams, prototypes, pattern pieces and computer aided design
Make	*Construct with a purpose, using a variety of resources *Use simple tools and techniques *Build / construct with a wide range of objects *Select tools & techniques to shape, assemble and join *Replicate structures with materials / components *Discuss how to make an activity safe and hygienic *Record experiences by drawing, writing, voice recording *Understand different media can be combined for a purpose	*Explain what I'm making and why *consider what I need to do next *select tools/equipment to cut, shape, join, finish and explain choices *Measure, mark out, cut and shape, with support *choose suitable materials and explain choices *Try to use finishing techniques to make product look good *work in a safe and hygienic manner	*Explain what I am making and why it fits the purpose *Make suggestions as to what I need to do next. *Join materials/component s together in different ways *Measure, mark out, cut and shape materials and components, with support. *Describe which tools I'm using and why *Choose suitable materials and explain choices depending on characteristics. *Use finishing techniques to make product look good *work safely and hygienically	*Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] *Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	*Select suitable tools/equipment, explain choices; begin to use them accurately * select appropriate materials, fit for purpose. * Work through plan in order *Consider how good product will be * Begin to measure, mark out, cut and shape materials/component s with some accuracy * Begin to assemble, join and combine materials and components with some accuracy * Begin to apply a range of finishing techniques with some accuracy	* Select suitable tools and equipment, explain choices in relation to required techniques and use accurately *Select appropriate materials, fit for purpose; explain choices * work through plan in order. * Realise if product is going to be good quality * measure, mark out, cut and shape materials/components with some accuracy *Assemble, join and combine materials and components with some accuracy *Apply a range of finishing techniques with some accuracy	* Use selected tools/equipment with good level of precision * Produce suitable lists of tools, equipment/materials needed *select appropriate materials, fit for purpose; explain choices, considering functionality * Create and follow detailed step by-step plan * Explain how product will appeal to an audience * Mainly accurately measure, mark out, cut and shape materials/components *Mainly accurately assemble, join and combine materials/components * Mainly accurately apply a range of finishing techniques * Use techniques that involve a small number of steps * Begin to be resourceful with practical problems	* Use selected tools and equipment precisely *Produce suitable lists of tools, equipment, materials needed, considering constraints * Select appropriate materials, fit for purpose; explain choices, considering functionality and aesthetics * Create, follow, and adapt detailed step-by-step plans *Explain how product will appeal to audience; make changes to improve quality * Accurately measure, mark out, cut and shape materials/components * Accurately assemble, join and combine materials/components * Accurately apply a range of finishing techniques * Use techniques that involve several steps * Be resourceful with practical problems	*Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately *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

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	*Adapt work if	*Talk about my	* Describe what went	*Explore and evaluate	* Look at design	*Refer to design criteria while designing and	*Evaluate quality of design while designing and making	*Evaluate quality of design while	*Investigate and
	necessary	work, linking it to	well, thinking about	a range of existing	criteria while	making	*Evaluate ideas and finished product against specification,	designing and making; is it fit for purpose?	analyse a range of
	*Dismantle,	what I was asked	design criteria	products	designing and making	*Use criteria to evaluate product	considering purpose and appearance.	* Keep checking design is best it can be.	existing products.
	examine, talk about	to do	* Talk about existing	*Evaluate their ideas	*Use design criteria to	* Begin to explain how I could improve original	*Test and evaluate final product	*Evaluate ideas and finished product	*Evaluate their ideas
	existing	* Talk about	products considering:	and products against	evaluate finished	design	* Evaluate and discuss existing products, considering: how well	against specification, stating if it's fit for	and products against
	objects/structures	existing products	use, materials, how	design criteria	product	*Evaluate existing products, considering: how	they've been made, materials, whether they work, how they have	purpose	their own design
	*Consider and	considering: use,	they work, audience,		* Say what I would	well they've been made, materials, whether	been made, fit for purpose	*Test and evaluate final product; explain	criteria and consider
	manage some risks	materials, how	where they might be		change to make	they work, how they have been made, fit for	* Begin to evaluate how much products cost to make and how	what would improve it and the effect	the views of others to
	*Practise some	they work,	used; express		design better	purpose	innovative they are	different resources may have had	improve their work.
	appropriate safety	audience, where	personal opinion		*Begin to evaluate	* Discuss by whom, when and where products	*Research how sustainable materials are	*Do thorough evaluations of existing	*Understand how key
	measures	they might be	*Evaluate how good		existing products,	were designed	*Talk about some key inventors/designers/ engineers/	products considering: how well they've	events and individuals
	independently	used	existing products are		considering: how well	* Research whether products can be recycled	chefs/manufacturers of ground-breaking products	been made, materials, whether they	in design and
	*Talk about how	*Talk about	*Talk about what I		they have been made,	or reused		work, how they've been made, fit for	technology have
	things work	existing products,	would do differently if		materials, whether	* Know about some inventors/designers/		purpose	helped shape the
	*Look at similarities	and say what is	I were to do it again		they work, how they	engineers/chefs/manufacturers of ground-		*Evaluate how much products cost to	world
	and differences	and isn't good	and why		have been made, fit	breaking products.		make and how innovative they are	
	between existing	* Talk about	"""		for purpose	areaming products:		*research and discuss how sustainable	
	objects / materials /	things that other			* Begin to understand			materials are	
	tools	people have			by whom, when and			*Consider the impact of products beyond	
	*Show an interest in	made *Bogin to talk			where products were			their intended purpose *Discuss some key inventors/designers/	
	technological toys	*Begin to talk			designed			, , , ,	
	*Describe textures	about what could			* Learn about some			engineers/ chefs/manufacturers of	
ø		make product			inventors/designers/			ground-breaking products	
ᅙ		better			engineers/chefs/				
를					manufacturers of				
Evaluate					ground-breaking				
					products				
		*Measure, cut	*Measure textiles		*Join different textiles	*Think about user when choosing textiles	*Think about user and aesthetics when choosing textiles	*Think about user's wants/needs and	
		and join textiles	*join textiles together		in different ways	*think about how to make product strong	*Use own template	aesthetics when choosing textiles	
		to make a	to make a product,		*choose textiles	* Begin to devise a template	* Think about how to make product strong and look better	*Make product attractive and strong	
		product, with	and explain how I did		considering	*Explain how to join things in a different way	*Think of a range of ways to join things	*Make a prototype	
		some support	it		appearance and	*understand that a simple fabric shape can be	*Begin to understand that a single 3D textiles project can be	*Use a range of joining techniques	
		*choose suitable	*Carefully cut textiles		functionality	used to make a 3D textiles project	made from a combination of fabric shapes.	*Think about how product might be sold	
		textiles	to produce accurate		*Begin to understand			*Think carefully about what would	
			pieces		that a simple fabric			improve product	
			*Explain choices of		shape can be used to			*Understand that a single 3D textiles	
					make a 3D textiles			project can be made from a combination	
			textile		project			of fabric shapes.	
Ŋ			*Understand that a		1 3				
[extiles			3D textile structure						
 			can be made from						
<u>9</u>			two identical fabric						
			shapes.						
		*Begin to	*Measure materials	*Build structures,	*Use appropriate	*Measure carefully to avoid mistakes	*Select materials carefully, considering intended use of product	*Select materials carefully, considering	*Apply their
ဟ		measure and join	*Describe some	exploring how they can	materials	*Attempt to make product strong	and appearance	intended use of the product, the	understanding of how
2		materials, with	different	be made stronger,	*Work accurately to	*Continue working on product even if original	*Explain how product meets design criteria	aesthetics and functionality.	to strengthen, stiffen
uctu		some support	characteristics of	stiffer and more stable	make cuts and holes	didn't work	*Measure accurately enough to ensure precision	*Explain how product meets design	and reinforce more
Ž		*describe	materials	other drid more stubic	* Join materials	*Make a strong, stiff structure	*Ensure product is strong and fit for purpose	criteria	complex structures
Str		differences in	*Join materials in		*begin to make strong		*Begin to reinforce and strengthen a 3D frame	* Reinforce and strengthen a 3D frame	
		materials			structures				
and		*suggest ways to	different ways						
		make	*Use joining, rolling or						
8		material/product	folding to make it						
. <u>.</u>		stronger	stronger						
Materials		33,01,801	*Use own ideas to try						
0			to make product		1	I	1	İ	
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	*Begin to	*Describe	*Explain hygiene and	*Use the basic	*Carefully select	*Explain how to be safe/hygienic	*Explain how to be safe / hygienic and follow own guidelines	*Understand a recipe can be adapted by	*Understand and
	understand some	textures *wash	keep a hygienic	principles of a healthy	ingredients	*Think about presenting product in	*Present product well - interesting, attractive, fit for purpose	adding / substituting ingredients	apply the principles of
	food preparation	hands & clean	kitchen	and varied diet to	*Use equipment	interesting/ attractive ways	*Begin to understand seasonality of foods	*Explain seasonality of foods	a healthy and varied
	tools, techniques	surfaces *think of	*Describe properties	prepare dishes	safely	*Understand ingredients can be fresh, pre-	*Understand how food is grown, reared or caught in the UK and	*Learn about food processing methods	diet
	and processes	interesting ways	of ingredients and	*Understand where	*Make product look	cooked or processed	the wider world. Explore sustainable and ethical ways of	*name some types of food that are	*Prepare and cook a
	*Practise stirring.	to decorate food	importance of varied	food comes from.	attractive	*Begin to understand about food being grown,	producing food.	grown, reared or caught in the UK or	variety of
	mixing, pouring,	*say where some	diet	1000 comes from.	*Think about how to	reared or caught in the UK or wider world	*Describe how recipes can be adapted to change appearance,	wider world. Discuss sustainable and	predominantly
	blending *Discuss	foods come from,	*Say where food		grow plants to use in	*describe eat well plate and how a healthy	taste, texture, aroma	ethical ways of food production. Explore	savoury dishes using a
	how to make an	(i.e. plant or	comes from (animal,		cooking	diet=variety / balance of food and drinks	*Explain how there are different substances in food / drink	impact on the world.	range of cooking
	activity safe and	animal) *describe	underground etc.)		*Begin to understand	*explain importance of food and drink for	needed for health	*Adapt recipes to change appearance,	techniques
	hygienic *Discuss	differences	*describe how food is		food comes from UK	active, healthy bodies	*Prepare and cook some savoury dishes safely and hygienically	taste, texture or aroma.	*Understand
	use of senses	between some	farmed, home-grown,		and wider world	*Prepare and cook some dishes safely and	including, where appropriate, use of heat source	*Describe some of the different	seasonality and know
	*Understand need	food groups (i.e.	caught		*describe how	hygienically	* Use range of techniques such as peeling, chopping, slicing,	substances in food and drink, and how	where and how a
	for variety in food	sweet, vegetable	*draw eat well plate;		healthy diet=	*Use some of the following techniques:	grating, mixing, spreading, kneading and baking	they can affect health	variety of ingredients
	*Begin to	etc.) *discuss	explain there are		variety/balance of	peeling, chopping, slicing, grating, mixing,	grating, mixing, spreading, kileading and baking	*Prepare and cook a variety of savoury	are grown, reared,
	understand that	how fruit and	groups of food		food/drinks	spreading, kneading and baking		dishes safely and hygienically including,	caught and processed.
	eating well	vegetables are	*describe "five a day"		*Explain how food	Spreading, kiledding did baking		where appropriate, the use of heat	caught and processed.
	contributes to good	healthy *cut, peel	*cut, peel and grate		and drink are needed			source.	
	health	and grate safely,	with increasing		for active/healthy			*Use a range of techniques confidently	
	licuitii	with support	confidence		bodies.			such as peeling, chopping, slicing, grating,	
		with support	Connactice		*Prepare and cook			mixing, spreading, kneading and baking.	
_					some dishes safely			mixing, spreading, knedding and baking.	
Nutrition					and hygienically				
Ē					*grow in confidence				
与					using some of the				
					following techniques:				
and					peeling, chopping,				
					slicing, grating,				
Food					mixing, spreading,				
Ľ.					kneading and baking				
					*Use simple circuit in	*Use number of components in circuit	*Incorporate switch into product	*Use different types of circuit in product	*Understand and use
=					product	*program a computer to control product	*Confidently use number of components in circuit	* Think of ways in which adding a circuit	electrical systems in
S S					*Learn about how to	program a compater to control product	*Begin to be able to program a computer to monitor changes in	would improve product	their products [for
					program a computer		environment and control product	* Program a computer to monitor	example, series
Electrical Systems					to control product.		civilotiment and control product	changes in environment and control	circuits
ш v					to control producti			product	on ourts
		*Begin to use	*Use levers or slides	*Explore and use	*Select appropriate	*Select most appropriate tools / techniques	*Refine product after testing	*Refine product after testing, considering	*Understand and use
		levers or slides	*begin to understand	mechanisms [for	tools / techniques	*explain alterations to product after checking	*Grow in confidence about trying new / different ideas *begin to	aesthetics, functionality and purpose	mechanical systems in
			how to use wheels	example, levers,	*alter product after	it	use cams, pulleys or gears to create movement	*incorporate hydraulics and pneumatics	their products [for
			and axles	sliders, wheels and	checking, to make it	*Grow in confidence about trying new /		*be confident to try new / different ideas	example, gears,
ns				axles], in their	better	different ideas.		*use cams, pulleys and gears to create	pulleys, cams, levers
Si				products.	*Begin to try	*Use levers and linkages to create movement		movement	and linkages]
<u> </u>					new/different ideas	*use pneumatics to create movement			
Ę					*use simple lever and				
Mechanisms					linkages to create				
Σ					movement				
			l		movement	l			