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						Ī	OT Curriculum Progression		
EYFS 3-4	EYFS Reception			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Explore different materials freely in order to develop their	Return to and build on their previous learning, refining ideas		themse • genera throug	purposeful, functiona elves and other users l te, develop, model an h talking, drawing, ten priate, information and	I, appealing products for based on design criteria d communicate their ideas nplates, mock-ups and, where d communication technology	aimed at partic • generate, deve diagrams, proto	d develop design criteria to inform the desular individuals or groups op, model and communicate their ideas the otypes, pattern pieces and computer-aided	arough discussion, annotated ske	tches, cross-sectional and exploded
ideas about how to use them and what to make. Develop their	and developing their ability to represent them.	Design	Design Brief Contexts, uses and purposes (DB)	To discuss and understand the purpose of the design and the intended user	Identify the purpose of the design and the intended user	1. Gather information about the needs and wants of particular individuals and groups in order to identify the	Through research gather information about the needs and wants of particular individuals and groups in order to fit the purpose	To begin to use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose.	To confidently use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose.
own ideas and decide which materials to use to express them. Join different materials and explore different	create collaboratively, sharing ideas, resources and skills. Develop their small motor skills so that they can use a	ď	Ideas (DI)	1. Generate own ideas for design by drawing on own experiences or existing products.	Generate own ideas for designs by drawing on own and others experiences through observations and discussions.	purpose 1. With growing confidence, generate, clarify and explain ideas through discussion. 2 Establish criteria for a successful/realistic	To develop a clear idea of what has to be done. Use annotated sketches, cross-sectional drawings and diagrams Model their ideas using prototypes and pattern piece	1. To start to generate innovative ideas that are fit for purpose, drawing on research through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes and pattern pieces	To confidently generate innovative ideas that are fit for purpose, drawing on research through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes and pattern pieces
textures. Choose the right resources to carry out their plan.	range of tools competently, safely and confidently. ELG: -Safely use and		perforr finishin • select f	from and use a range on practical tasks [e.g. on practical tasks [e.g. on practical tasks [e.g. on practical tasks [e.g. on practical tasks including constitutions constitution constitutions constitutions constitutions constitutions constit	of tools and equipment to cutting, shaping, joining and ange of materials and cruction materials, textiles and	accurately • select from and	use a wider range of tools and equipment		cutting, shaping, joining and finishing], aterials, textiles and ingredients, according to
Use one-handed tools and equipment, for example, making snips in paper with scissors. Explore how things work.	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.	Make	Planning (MPI)	1. Through discussion select from a range of tools, equipment, materials and components. 2. To begin to explain what they're making and the tools that they will be using.	To independently select from a range of tools, equipment, materials and components To use the correct vocabulary to explain what they're making and the tools/materials that they will be using.	range of tools and techniques suitable for their product	To show a good level of expertise when selecting a wider range of tools and techniques suitable for their product, explaining their reasons. To show a good level of expertise when selecting a wider range of tools and techniques suitable for their product, explaining their reasons.	To show a good level of expertise when selecting a wider range of tools and techniques suitable for their product according to their functional properties To order the main stages of making	1. To demonstrate confidence when selecting a wider range of tools and techniques suitable for their product according to their functional properties, refining details as necessary 2. To produce detailed lists of tools, equipment and materials that they need and order the main stages of making.
•	Share their creations, explaining the process they		Pla.	that they will		1			



								T	
	including								
	scissors,								
	paintbrushes								
	_ ·								
	and cutlery.								
				Follow safety	Follow safety procedures	Follow safety	Follow safety procedures	Follow safety procedures	5. Follow safety procedures
				procedures	With increasing	procedures	With some accuracy measure,	Accurately measure to	6. Accurately measure to the nearest
				2. With support	independence make	2. Start to think	mark and cut out, shape,	the nearest mm, mark	mm, mark out, cut and shape materials
				begin to make	their design using	about their ideas	assemble, join and combine	out, cut and shape	and components.
			4)	their design	appropriate techniques	as they make	materials and components.	materials and	7. Accurately assemble, join and combine
			l me	_	3. Measure, mark out, cut	progress and be	To strengthen and improve		materials/components
			l ji	using	out and shape materials	willing to change	finishing techniques using a range	components. 3. Accurately assemble,	8. Use techniques that involve a number
			technique	appropriate	•	things if this helps			of steps
			te (techniques	and components 4. To start to choose and		of equipment	join and combine	-
			and t	Use simple fixing		them to improve their work		materials/components 4. Ensure projects have a	Demonstrate resourcefulness e.g. make refinements
			S a	materials e.g.	use appropriate finishing techniques based on	3. To begin to		quality finish	10. Ensure projects have a quality finish
			Skills (MP)	paper clips,	their own ideas	measure, mark		quality IIIIISII	10. Elisure projects have a quality linish
			181	glue, staples	their own ideas	out, cut out and			
			i ca	and tape		shape materials			
			ਰੂ	4. Begin to use		with some			
			Practical	simple		accuracy			
				finishing		accuracy			
				techniques to					
				improve the					
				appearance					
			Pupils should be	<u>' ' </u>		Pupils should be taught	ro:		
			•	_	e of existing products		analyse a range of existing products		
			-	_	ducts against design criteria	_	deas and products against their own desig	n criteria and consider the views	of others to improve their work
				,	and a game a congression and a		v key events and individuals in design and		-
				1. To begin to	Evaluate their work	Evaluate and	1. To evaluate both during and at the		To evaluate their products both during
				evaluate their	against their design	record their	end of the project, identifying	the product design as	and at the end, identifying strengths
				product	criteria and purpose	product against	strengths and possible changes	work progresses, refining	and areas for development, carrying
			10	through	2. To discuss strengths and	original design	they might make	work and techniques	out appropriate tests
			ıcts	discussion	how they might improve	criteria e.g. how it	2. Evaluate their products carry out	2. To evaluate their	2. To record their evaluations using
			ਰੂ	Make simple	in the future	meets its intended	appropriate tests against the	product and seek	drawings and labels
) ic	judgements		purpose	design criteria	evaluation from others	3. To evaluate against their original
			(EI)	about their		2. Identify strengths	3. To use constructive comments	3. To use constructive	criteria and suggest ways that their
			ar (E)	products and		and possible	from others to improve their work	comments from others	product can be improved
			sas	ideas against		changes they may		to improve their work	4. To use constructive comments from
		ıte	ide	design		take			others to improve their work
		Evaluate	Own ideas	3. To talk about		3. To begin to use			
			ó	their ideas		constructive			
		ш		saying what		comments from			
				they like and		others to improve			
				dislike about		their work			
				them	4	1 Desires	1 Taba able to discount!	1 To success the second	4 To investigate have sevel
				1. Discuss what	Investigate and discuss what products are who	1. Begin to	To be able to dissemble and Ovaluate familiar products and	To create innovative designs that improve	To investigate how much products cost to make how innovative products are
İ			S	products are,	what products are, who	dissemble and evaluate familiar	evaluate familiar products and consider the views of others to	designs that improve	to make, how innovative products are and how sustainable the materials of
			l t	who they are for, how they	they are for, how they are made and what	products and	improve them and give reasons for	upon existing products 2. To begin to think about	the products are
			1 3			products and	improve them and give reasons for	1 2. TO DESITE TO CHILLY ADOUT	ווב טוטעענגט מו כ
			npo			consider the views	choices made	how much products cost	2 Suggest improvements that can be
			produ	are made and	materials are used	consider the views	choices made	how much products cost to make	Suggest improvements that can be made to enhance user experience
			(EP)	are made and what materials	materials are used 2. Discuss whether they like	of others to	choices made	how much products cost to make	Suggest improvements that can be made to enhance user experience
			sting produ	are made and what materials are used	materials are used 2. Discuss whether they like or dislike the products		choices made	· ·	== :
			Existing produ (EP)	are made and what materials	materials are used 2. Discuss whether they like	of others to	choices made	· ·	== :
			Existing products (EP)	are made and what materials are used 2. Discuss	materials are used 2. Discuss whether they like or dislike the products	of others to	choices made	· ·	



		Key events and individuals (EE&I)	N/A		Identify great designers and Breuer)	I their work and use research of des	signers to influence work (such a	as Brunel, Mackintosh, Philip Treacy, Marcel
Technical knowledge	ieciiiicai Kiiowiedge	• explore axles], (TK) (TK)	tructures, exploring he and more stable and use mechanisms in their products 1. Understand about the simple working characteristics of materials and components 2. Understand about the movement of simple mechanisms including levers, sliders	1. Understand about the simple working characteristics of materials and components 2. Understand about the movement of simple mechanisms including wheels and axles 3. Know the correct technical vocabulary for the projects they are undertaking 4. Understand how freestanding structures can be made stronger, stiffer and more stable	 understand and use me understand and use ele apply their understand Understand how levers and linkages or pneumatic systems create movement Sunderstand use me Apply their understand Understand how levers and some systems or systems Apply their understand But the sund in the systems 	ing of how to strengthen, stiffen and echanical systems in their products ectrical systems in their products [e. ing of computing to program, monit inderstand how to program a computer to control their products now how to make strong, stiffinell structures now that a single fabric shape can e used to make a 3D textiles roduct	[for example, gears, pulleys, can g. series circuits incorporating s	
	Cooking and nutrition	a healt to prep	e basic principles of hy and varied diet pare dishes tand where food	 prepare and cook a vare understand seasonality Know that food is grown (supotatoes), reared (such as preaught (such as fish) in the last of the last	uch as tomatoes, wheat and bigs, chickens and cattle) and UK, Europe and the wider world ically using appropriate utensils.	1. Know that seasons may affect 2. Understand how food is process. 1. How to use a range of technicand baking Know that recipes 2. Know that different foods conhealth 3. Understand that seasons may affect 2.	ques such as peeling, chopping, s can be adapted to change the ntain different substances - nutrous y affect the food available, and ressed into ingredients that can be essed in the can be essed in the can be essed in the can be essed into ingredients the can be essed in the can be essed in the	slicing, grating, mixing, spreading, kneading appearance, taste, texture and aroma rients, water and fibre - that are needed for



	grate, mix and 6. Begin to use toasters and microwaves
	mould foods 7. Know that a healthy diet is made up from a variety and
	3. Measure or balance of different foods and drinks, as depicted in the 'eat
	weigh using well' plate
	measuring
	cups or
	electronic
	scales.
	4. Assemble or
	cook healthy
	ingredients.
	5. Understand
	how to name
	and sort
	foods into the
	five groups in
	'The Eat well
	plate'
	6. Know that
	everyone
	should eat at
	least five
	portions of
	fruit and
	vegetables
	every day.
	7. Understand
	that food
	ingredients
	should be
	combined
	according to
	their sensory
	characteristics



Year 1/ 2 **Year 5/6 Textiles Textiles** Templates & Combining different fabric shapes: Joining: seam, seam allowance, wadding, reinforce, right side, wrong side, hem, template, pattern pieces, name of names of existing textiles and fastenings used, pins, needles, thread, pinking shears, fastenings, iron, transfer paper, design products, joining criteria, annotate, design decisions, functionality, innovation, authentic, user, purpose, evaluate, mock-up, Year 3/4 and finishing prototype techniques, tools, **Textiles** fabrics and **Electrical Systems** 2D shape and 3D products: components, More complex switches & circuits: fabric, names of fabrics, fastening, compartment, zip, button, template, pattern series circuit, parallel circuit, names of switches and components, input device, output device, system, structure, finishing technique, strength, weakness, stiffening, pieces, mark out, monitor, control, program, flowchart, function, innovative, design specification, design brief, user, purpose templates, stitch, seam, seam allowance, user, purpose, design, join, decorate, model, evaluate, prototype, annotated sketch, functional, finish, features, Mechanisms innovative, investigate, label, drawing, aesthetics, function, suitable, quality Pulley or Gears: pattern pieces mock-up, design Pulley, drive belt, gear, rotation, spindle, driver, follower, ratio, transmit, axle, motor. circuit, switch, circuit brief, design diagram, annotated drawings, exploded diagrams, mechanical system, electrical system, input, process, **Electrical Systems** criteria, make, output, design decisions, functionality, innovation, authentic, user, purpose, design specification, design brief Simple Circuits & Switches: evaluate, user, series circuit, fault, connection, toggle switch, push-to-make purpose, function **Food and Nutrition** switch, push to-break switch, battery, battery holder, bulb, bulb Celebrating Culture & Seasonality: holder, wire, insulator, conductor, crocodile clip, control, Ingredients, yeast, dough, bran, flour, whole meal, unleavened, baking soda, spice, herbs, fat, sugar, Structures program, system, input device, output device, user, purpose, Freestanding carbohydrate, protein, vitamins, nutrients, nutrition, healthy, varied, gluten, dairy, allergy, intolerance, function, prototype, design criteria, innovative, appealing, Structures: savoury, source, seasonality, utensils, combine, fold, knead, stir, pour, mix, rubbing in, whisk, beat, roll out, design brief cut, fold, join, fix, shape, sprinkle, crumble, design specification, innovative, research, evaluate, design brief structure, wall, Mechanisms tower, framework, Structures Technical Leavers & Linkages: weak, strong, Frame Structures: Vocabulary mechanism, lever, linkage, pivot, slot, bridge, guide, system, base, top, frame structure, stiffen, strengthen, reinforce, triangulation, stability, shape, join, temporary, permanent, input, process, output, linear, rotary, oscillating, reciprocating, (oracy) underneath, side, design brief, design specification, prototype, annotated sketch, purpose, user, innovation, research, functional user, purpose, function, prototype, design criteria, innovative, edge, surface, appealing, design brief thinner, thicker, corner, point, **Structures** straight, curved, **Shell Structures:** metal, wood, shell structure, three-dimensional (3-D) shape, net, cube, plastic, circle, cuboid, prism, vertex, edge, face, length, width, breadth, triangle, square, capacity, marking out, scoring, shaping, tabs, adhesives, joining, rectangle, cuboid, assemble, accuracy, material, stiff, strong, reduce, reuse, cube, cylinder, recycle, corrugating, ribbing, laminating, font, lettering, text, design, make, graphics, decision, evaluating, design brief design criteria, evaluate, user, innovative, prototype purpose, ideas, design criteria, **Food and Nutrition** product, function **Healthy & Varied Diet:** name of products, names of equipment, utensils, techniques Food and and ingredients, texture, taste, sweet, sour, hot, spicy, Nutrition appearance, smell, preference, greasy, moist, cook, fresh, Preparing Fruit & savoury, hygienic, edible, grown, reared, caught, frozen, tinned, Vegetables: processed, seasonal, harvested healthy/varied diet, planning, fruit and design criteria, purpose, user, annotated sketch, sensory vegetable names, names of equipment and utensils, sensory vocabulary e.g.

> soft, juicy, crunchy, sweet,



	sticky, smooth,		
	sharp, crisp, sour,		
	hard, flesh, skin,		
	seed, pip, core,		
	seeu, pip, core,		
	slicing, peeling,		
	cutting, squeezing,		
	healthy diet,		
	choosing,		
	ingredients,		
	planning,		
	investigating		
	tasting, arranging,		
	nonular docian		
	popular, design,		
	evaluate, criteria		
	Mechanisms		
		Clidar &	
	Wheels & Axles:	Slider &	
	Wheels & Axles: vehicle, wheel,	Leavers:	
	Wheels & Axles: vehicle, wheel, axle, axle holder,	Leavers: slider, lever,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab,	Leavers: slider, lever, pivot, slot,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling,	Leavers: slider, lever, pivot, slot, bridge/guide,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining,	Leavers: slider, lever, pivot, slot, bridge/guide, card,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose, user, criteria,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose, user, criteria,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose, user, criteria,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards, design,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose, user, criteria,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards, design, make,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose, user, criteria,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards, design, make, evaluate,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose, user, criteria,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards, design, make, evaluate, user,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose, user, criteria,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards, design, make, evaluate, user, purpose,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose, user, criteria,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards, design, make, evaluate, user, purpose, ideas, design	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose, user, criteria,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards, design, make, evaluate, user, purpose, ideas, design criteria,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose, user, criteria,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards, design, make, evaluate, user, purpose, ideas, design criteria,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose, user, criteria,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards, design, make, evaluate, user, purpose, ideas, design criteria, product,	
	Wheels & Axles: vehicle, wheel, axle, axle holder, chassis, body, cab, assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism, names of tools, equipment and materials used, design, make, evaluate, purpose, user, criteria,	Leavers: slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards, design, make, evaluate, user, purpose, ideas, design criteria,	