

Wetheringsett C of E Primary School EYFS Skills and Knowledge Progression Subject area: Design and Technology

EROLAND PRIMPET	Subject area: Design and Technology
Age 3 to 4	 Explore different materials freely, to develop their ideas about how to use them and what to make. Develop their own ideas and then decide which materials to use to express them. Join different materials and explore different textures. Create closed shapes with continuous lines and begin to use these shapes to represent objects. Draw with increasing complexity and detail, such as representing a face with a circle and including details. Use drawing to represent ideas like movement or loud noises. Show different emotions in their drawings and paintings, like happiness, sadness, fear, etc. Explore colour and colour mixing. Show different emotions in their drawings – happiness, sadness, fear, etc. Listen with increased attention to sounds. Respond to what they have heard, expressing their thoughts and feelings.
Reception	 Return to and build on their previous learning, refining ideas and developing their ability to represent them. Create collaboratively, sharing ideas, resources and skills.
ELG	 Expressive Arts and Design - Creating with Materials Safely use and 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;



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Skills and Knowledge	Year 1	Year 2	Year 3	Year 4	Year 5/6
Designing and	Begin to draw on own	With growing confidence	e generate ideas for a	Generate and develop their ideas through	Generate, develop
Planning	experiences and	product based on theirs	and others experiences,	discussion, research, sketches and cross-	and communicate
	research to help	research and suggestions	S.	sectional diagrams.	their ideas through
	generate ideas.				discussion, research,
		Understand how well pro		Start to understand how much products cost to	annotated sketches,
	Begin to explore how	designed and made. Idea	=	make and how sustainable they are.	cross-sectional and
	products have been	and consider their sustain	nability (recycle)	Understand the impact that products have	prototypes.
	created. What they are			beyond their intended purpose.	
	for and how they work.	Develop their ideas throu	•		Carry out a range of
		observation, drawing and	d modelling.	Carry out research through a surveys,	research and use
	Begin to develop their	AA L L L L L L L L L L L L L L L L L L		questionnaires or interviews to identify the needs	their finding to
	ideas though talk and	Make clear designs with	labels whendesigning.	and preferences of their target audience	develop design
	drawings including	Danis to take into annoi	danatian thain tanas	Constant in some success / design suitaria hasad	criteria to inform the
	what tools and	Begin to take into consider	•	Create their own success / design criteria based	design of innovative, functional and
	materials they will use.	group, including purpos	se and audience for	on research to inform innovative, functional and	
	Talk about their design,	their product.		appealing products that are fitfor purpose.	appealing products.
	how they will make it	Refer to the success crite	oria and consider how	Consider the design criteria, their own evaluation	Formulate a step-by-
	and who it is for.	this will be achieved.	tha and consider now	and view of others to improve theirdesign.	step plan to use as a
	and who it is for.	this will be defleved.		and view of others to improve their design.	guide.
	With support, begin to	When planning, consider	r how to order the	Make clear, labelled drawings and showdifferent	guide.
	decide a suitable order	stages of making the pro		views of the product.	Suggest alternative
	to complete tasks	a stages or maning are pro		The state of the production	methods if original
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Be able to explain their o	choices of materials,	Be able to consider alternative methods.	plan fails.
		tools, function and aesth			1
			•		Draw a specification

	Vor 1	Voor 2	Voar 2	Clearly, explain their design and choices linkedto their research. Explain the process and know the tools, materials and processes they need to use and be able to explain why, linkingto the function and aesthetics of their product.	for the design linking to maths and science. Clearly, explain their design and choices linked to their research. Explain the process and know the tools, materials and processes they need to use and be able to explain why. Be able to identify and discuss the strengths and areas for development in their and plan. Know how much products cost to make, how long they take to make and their sustainability. Take this into consideration when designing their products.
	Year 1	Year 2	Year 3	Year 4	Year 5/6
Making	Begin to use tools, with support if needed. Make their design by using appropriate	Explain their choice of to relation to the desired put techniques they will be u	ools and equipment in urpose, skills and	With increasing confidence, select appropriate materials, tools and techniques. Select from and use a wider range of materials and components, according to their functional	Confidently self - select and demonstrate the correct and safe use of appropriate tools,

techniques safely.	properties and aesthetic qualities also.	materials,

With support, measure, mark out, cut and shape a range of materials safely.

Begin to join, assemble and combine materials and components together using a variety of temporary methods.

Begin to use simple finishing techniques to improve the appearance of their product.

Begin to build structures exploring how they can be made stronger, stiffer and more stable. Work safely and accurately with a range of simple tools.

Measure, mark out, cut, score and assemble components with accuracy.

Choose the most appropriate techniques and materials to assemble, join and combine materials in order to make a product.

Start to think about their ideas as they progress and be willing to change things if thishelps them to improve their product.

Use finishing techniques to strengthen and improve the appearance of their product.

Confidently demonstrate how to use skills in using different tools and equipment safely and accurately to ensure a good-quality finish.

Know how to measure, mark out, cut, score, shape and assemble a range of materials using appropriate tools, equipment and techniques.

Be able to join materials and combine materials and components accurately using temporary and permanent ways.

Make changes to their product as they progress to improve the quality of their product.

Use finishing techniques to strengthen and improve the appearance of their product using arange of equipment.

components and techniques. With growing independence measure, mark out, cut, score, shape and assemble, join and combine a range of materials using appropriate tools, equipment and techniques.

Continually make adaptions in the making process to improve the assembly and quality of the product.

Understand how complex electrical circuits and components work and use these in their products.

Use and explain the finishing techniques to strengthen and improve the appearance and quality of their product.

	Year 1	Year 2	Year 3	Year 4	Year 5/6
Evaluating	When looking at existing products explain what they like and dislike about them and why, identify what the product is, what it is made from and who have they have been made for. Start to evaluate their product by discussing what works well in relation to the design criteria. Begin to evaluate their products by identifying strengths and areas that could be improved.	Look at a range of existing what they like and dislike giving relevant reasons we Evaluate how they work be used. Evaluate their own and of the design criteria, explaidentified particular strematically be improved and make.	e about theproducts why. and where they might others' products against ining why theyhave agths and areas that	Evaluate existing products; where they were designed and made, consider the components, the cost and how sustainable / recyclable the product is. Be able to disassemble a product towork out how it was made and how it works. Evaluate the quality of the design, manufacture and fitness for purpose of their products and those made by their peers, using the design/success criteria. Know about key inventors and designers related to the products they are making.	Evaluate existing products by also considering what impact products have beyond their intended purpose. Critically evaluate the quality of the design, manufacture and fitness for purpose of their products and those made by their peers. Know and discuss key inventors, designers, engineers, chefs and manufactures who have developed ground-breaking products and evaluate the impact these have had on the world.
	Year 1	Year 2	Year 3	Year 4	Year 5/6
Technical Knowledge	Know how structures, including free standing structures, can be made stronger, stiffer and more stable using	Explore mechanisms, ir wheels and axels and punderstand they create at the create and use these me	oneumatic systems and allow movement.	Understand that mechanical systems have an input, process and output. Understand and use mechanical systems suchas levers, linkages, cams, pulleys and gears to	Know electrical circuits and components can be used to create functional products.

				create movement.	
	techniques such as			Create movement.	Know how to
	rolling, folding and			Vnow how to make strong structures and	
	layering.			Know how to make strong, structures and	program a computer
				strengthen and reinforce a 3D structure.	to monitor the
					changes and control their products.
	Year 1	Year 2	Year 3	Year 4	Year 5/6
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Food & Nutrition	Begin to understand	Begin to understand tha	t food is grown (e.g.	Explain how a healthy diet can be created using	An understanding of
	that all food comes	tomatoes, wheat and po	, , ,	their knowledge of the 'The Eat Well Plate' and	how seasons may
	from plants or animals.	chickens and cattle) and	caught (fish) across	drawing upon their understanding ofwhat each	affect the food which
		the world (UK, Europe ar	nd Word wide).	food groups provide us to be healthy.	is available.
	Identify the five food				Understand
	groups from 'The Eat	Know that food is proce	ssed into ingredients	Begin to understand that different food and	'seasonality'.
	Well Plate' and	that can be eaten or use	d in cooking.	drink contain different substances – nutrients,	
	understand we need to			water, fibre and minerals that are needed for	In depth
	have a healthy	Understand that a health	ny diet is made up froma	health.	understanding of the
	balanced diet.	variety and balance of d	ifferent food and drink		food groups and the
		as shown in the 'The Eat	Well Plate.' Explain what	To know that we have sweet and savouryfoods.	principles of a healthy
	Know that everyone	each food type provides	to keep us healthy.		diet.
	should eat at least five			To know that people have different diets	
	portions of fruit and	Know that to be healthy	and active food and	vegetarian/vegan/allergies/intolerances	Know that recipes can
	vegetables every day.	drink are needed to pro-	vide the body energy.		be adapted to
				Begin to understand that certain foods	change the
	Know how to prepare	Prepare and cook food s	safely and hygienically.	complement each other.	appearance, taste,
	food safely and				texture and aroma of
	hygienically.	Use a range of techniqu	es such as spreading,	Demonstrate how to safely and hygienically	a dish.
	Use techniques such as	kneading, cutting, scorin	g, mixing and baking.	prepare and cook a variety of predominately	
	cutting, peeling and			savoury dishes using a heat source where	Confidently
	grating.	Begin to weigh and mea	sure ingredients with	required.	demonstrate and
		more accuracy (dry ingre	edients and liquids)		explain how to
	Choose appropriate			Confidently use a range of techniques toprepare	prepare and cook
	ingredients for a			and cook food.	dishes using a heat
	product and begin to				source where
	explain their choices.				required safely and

		hygienically.
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	Year 1	Year 2	Year 3	Independently weigh and measure ingredients with accuracy (time, dry ingredients and liquids). Year 4	Confidently use a wider range of techniques to prepare and cook food including heating and baking.
Textiles	To explore and sort textiles (e.g., felt, velvet and cotton) identifying different colours, textures, sizes, shape, including thick and thin materials. Using a template, cut and shape fabric using scissors/snips Explore ways of joining materials, including sewing, gluing and stapling Apply decoration using beads, buttons, feathers etc. To know how to thread a needle and complete a running stitch	Change and modify three knotting, fraying, fringing twisting & plaiting Apply techniques to created the second se	g, pulling threads, ate a product fabric using rengthen Create	Understand that there are different stitches for different purposes and begin to select these. Learn how to use a cross stitch Continue to develop skills in stitching, measuring, cutting and joining. Experiment with a range of media to overlapand layer creating interesting colours and textures and effects (Applique) Combine and apply techniques to make a product Measure, cut and shape fabric using scissors/snips	Use fabrics to create 3D textile product Use a prepared pattern Use different grades of threads and needles Use a variety of stiches Experiment with fabric and fabric design using batik techniques Understand how fabrics can be strengthened, stiffened and reinforced Apply purpose and functionality features

		e.g. opening and

		closing drawstring &
		eyelets.