Children First

ANEAS	AREAS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
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EYFS	Nursery					Reception				
See long term overview for: Substantive knowledge Procedural Knowledge Key Vocab	 Select and use activities and resources, with help when needed. This helps them to achieve a goal they have chosen or one which is suggested to them. Choose the right resources to carry out their own plan. Explore how things work. Use one-handed tools and equipment, for example, making snips in paper with scissors 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. Make imaginative and complex 'small worlds' with blocks and construction kits, such as a city with different buildings and a park. Be increasingly independent in meeting their own care needswashing hands before handling food 					 Use a range of small tools, including scissors, paintbrushes and cutlery. tools competently, safely and confidently Return to and build on their previous learning, refining ideas and developing their ability to represent them Create collaboratively, sharing ideas, resources and skills. 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. Make use of props and materials when role-playing characters in narratives and stories. Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food 				
EYFS	Nursery Recept				Reception EVALUATE	TECHNICAL	COOKING AND			
	To know what they are going to make before they make it. To know how to share what they are doing with their key worker.	To know how to safely explore a variety of tools. To know how to explore joining different materials together. To know how to thread.	To know what they like about their creation.	To know how to make their creation more stable (e.g. a tower). To know how to distinguish between moving and non-moving elements.	NUTRITION To know what foods they like to eat. To know there are healthy and unhealthy foods. To know how to use a knife and fork when supported by an adult.	To know what a product is. To know how to discuss what they want to make. To know to discuss problems and how they might be solved as	To know that designs can help shape our thinking before making. To know how to choose the right resources to carry out their own plan, (e.g. cutting tool for the playdough).	To know how to evaluate their product using appropriate vocabulary including how they might make it better.	To know how to select correct materials which allow for movement.	To know the names of well-known fruit and vegetables. To know how to make some simple healthy food choices. To know the importance of healthy food choices.



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			To know how to wash hands before and after eating. To know how to combine different ingredients to create a dish with adult support.	To know how to use drawing to create a simple plan.	To know different techniques for joining materials, such as how to use adhesive tape and different sorts of glue. To know how to thread continuously (e.g. using lacing boards). To know how to select the appropriate materials to create a desired aesthetics.	

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<u>DESIGN</u>	To know how to use own ideas to design a	To know the purpose and audience of their	To know how to prove that a design is fit for	To know how to use ideas from other people when	To know how to design with a range of initial	To know how to justify design choices and planning in



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Substantive knowledge	functional product.	product through design criteria set by the teacher.	purpose and meets the user's needs in line with	designing (e.g. creating a mood board of existing	ideas using computer- aided design (CAD)	terms of audience and purpose.
	To know how to describe how	To know how to	the design criteria.	products)	where appropriate (e.g.	To know how to show that culture
Procedural Knowledge	their own idea works.	use IT to communicate and research	I can design a product and make sure that it looks	To know how to produce a design criteria to inform the	CAD for packaging).	and society is considered in plans and design criteria.
	I can explain to	ideas where	appealing.	designing and	To know how to	
Vocabulary	someone else how they want	appropriate (e.g. taking pictures	I can draw	making process.	explain how a product will	I can draw detailed 3D designs using
	to make their product.	and annotating them).	annotated designs with labels that detail their	I can communicate ideas through annotated sketches	appeal to a specific audience and how it meets	exploded diagrams or cross sectional drawing where
	I can draw a simple plan with	I can explain why they have chosen	material choices and suitability of	that show different viewpoints of the	the purpose through creating	appropriate to display finer details.
	support from templates	specific textiles or materials.	the given materials	product.	their own design criteria.	
	before making.	I can draw a	User, purpose,	Evaluating, design	I can create	Function, innovative, design specification,
	Planning, investigating	simple design and label the parts of	design, model, evaluate,	brief design criteria, innovative,	annotated 3D drawings of their	design brief, user, purpose design brief,
	design, evaluate, make,	their product.	prototype, annotated sketch,	prototype, user, purpose, function,	design on isometric or	design specification, prototype, annotated
	user, purpose, ideas, product.	Investigating, planning, design,	functional, innovative,	prototype, design criteria, innovative,	squared paper.	sketch, purpose, user, innovation, research,
		make, evaluate,	investigate, label,	appealing, design	Design decisions,	functional, mock-up,



AREAS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		ideas, design criteria, product, function.	planning, design criteria, annotated sketch, appealing.	annotated sketch, sensory evaluations.	authentic, user, purpose, design specification, design brief, innovative, research, evaluate, design criteria, annotate, evaluate, mockup, prototype	
	To know how	To know how to	To know how to	To know which	To know how to	To know which tool
	to use own	make a mock-up	select the most	tools to use for a	make a prototype	to use for a specific
MAKE	design plan to	of their design	appropriate tools	particular task and	before making a	practical task.
	make	where	for a given task	show knowledge of	final version.	
	something.	appropriate (e.g.		handling the tool		To know how to use
		paper patterns	To know how to		To know and use	any tool correctly an
Substantive	To know how	for puppets).	choose the right	To know which	a range of tools	safely.
knowledge	to use tools		equipment and	material and/or	and equipment	
	safely for a	To know how to	materials	component is likely	competently and	To know why a
	specific	identify and	(including textiles,	to give the best	safely.	specific tool is best
	purpose (e.g.	name a selection	construction	outcome based on	l	for a specific action.
Procedural	to cut, shape or	of hand tools	materials and/or	its properties.	I can carry out finishing	I can pin, sew and
Knowledge	to join).	To know how to	ingredients).	I can mark, measure,	techniques to	stitch materials
	I can assemble	choose tools and	To know how to	cut and join	enhance the	together to create a
	and join	materials and	select the most	accurately.	appearance and	product.
	materials	explain why they	appropriate	accaratery.	function of their	product.



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Key Vocab	(including	have chosen	technique for	I can sew, weave or	product.	reed switch, toggle
	construction	them	shaping and	knit using a range of		switch, push-to-
	materials) using		joining.	stitches.	frame structure,	make switch, push-
	a variety of	I can join			stiffen,	to-break switch,
	methods.	materials and	I can work	series circuit, fault,	strengthen,	light dependent
		components in	accurately to	connection, toggle	reinforce,	resistor (LDR), tilt
	I can use simple	different ways	measure, make	switch, push-to-	triangulation,	switch, light
	sewing		cuts and make	make switch, push-	stability, shape,	emitting diode
	techniques with	I can cut and join	holes.	to-break switch,	join, temporary,	(LED), bulb, bulb
	support or	fabric to make a		battery, battery	permanent.	holder, battery,
	scaffolded	simple product.	I can choose	holder, bulb, bulb	pulley, drive belt,	battery holder, USE
	resource.		finishing	holder, wire,	gear, rotation,	cable, wire,
		I can use simple	techniques to	insulator, conductor,	spindle, driver,	insulator,
	cut, fold, join,	sewing	improve the	crocodile clip,	follower, ratio,	conductor,
	fix structure,	techniques.	appearance of	control, program,	transmit, axle,	crocodile clip
	wall, tower,		their products	system, input	motor, circuit,	control, program,
	framework,	I can carry out	using a range of	device, output	switch, circuit	system, input
	weak, strong,	finishing	equipment	device, fabric,	diagram,	device, output
	base, top,	techniques that	including ICT.	names of fabrics,	annotated	device, series
	underneath,	have been		fastening,	drawings,	circuit, parallel
	side, edge,	modelled by the	shell structure,	compartment, zip,	exploded	circuit. seam, sean
	surface,	teacher.	three-dimensional	button, structure,	diagrams,	allowance,
	thinner, thicker,		(3-D) shape, net,	finishing technique,	mechanical	wadding, reinforce
	corner, point,	vehicle, wheel,	cube, cuboid,	strength, weakness,	system, electrical	right side, wrong
	straight,	axle, axle holder,	prism, vertex,	stiffening,	system, input,	side, hem,
	curved, metal,	chassis, body, cab	edge, face, length,	templates, stitch,	process, output	template, pattern
	wood, plastic	assembling,	width, breadth,	seam, seam		pieces, name of
	circle, triangle,	cutting, joining,	capacity, marking	allowance,		textiles and



AREAS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	square, rectangle, cuboid, cube, cylinder. joining and finishing techniques, tools, fabrics and components, template, pattern pieces, mark out, join, decorate, finish, slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards	shaping, finishing, fixed, free, moving, mechanism names of tools, equipment and materials used	out, scoring, shaping, tabs, adhesives, joining, assemble, accuracy, material, stiff, strong, reduce, reuse, recycle, corrugating, ribbing, laminating, font, lettering, text, graphics, decision,	mechanism, lever, linkage, pivot, slot, bridge, guide system, input, process, output linear, rotary, oscillating, reciprocating		fastenings used, pins, needles, thread, pinking shears, fastenings.
	To know how to explore a	To know how to explore and	To know why existing products	To know how to evaluate existing	To know how to collect	To know how key events and



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Substantive knowledge	range of existing products and describe what makes it work	evaluate a range of existing products describing what makes it work	have or have not been successful to inform their own designs	products for both their purpose and appearance. To know how to	information from investigating existing products and research using ICT where	individuals have shaped the products that exist today. To know how to
	well to inform their own choices	well and not so well to inform their own choices	To know why a product has or has not been successful.	evaluate their own and others final product against the design criteria.	appropriate. To know key events and	evaluate their own and others finished product against the design criteria.
Procedural Knowledge	I can explain went well with their own work	I know what was successful and less successful in the model they	I can improve finished product in relation to the	I can evaluate and suggest improvements for	individuals that have led to existing products.	I can test and evaluate their own
Key Vocab	against a design criteria Planning,	have made against a design criteria	design criteria. User, purpose,	their own designs. Evaluating, design	I can evaluate appearance and function against	prototype on a specified audience (where possible) and use feedback on final
	investigating design, evaluate, make,	Investigating, planning, design,	design, model, evaluate, prototype,	brief design criteria, innovative, prototype, user,	the design criteria.	product. Function, innovative,
	user, purpose, ideas, product.	make, evaluate, user, purpose, ideas, design	annotated sketch, functional, innovative,	purpose, function, prototype, design criteria, innovative,	I can suggest alternative plans using feedback	design specification, design brief, user, purpose design brief,
		criteria, product, function.	investigate, label, drawing, function, planning, design	appealing, design brief, planning, annotated sketch,	from others; outlining the positive features	design specification, prototype, annotated sketch, purpose,
			criteria, annotated sketch, appealing.	sensory evaluations.	and draw backs. Design decisions,	user, innovation, research, functional, mock-up, prototype.



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					functionality, authentic, user, purpose, design specification, design brief, innovative, research, evaluate, design criteria, annotate, evaluate, mock- up, prototype.	
	To know how	To know how to	To know how to	To know how to	To know how to	To know how to use
TECHNICAL	to make their own model	make a model stronger, stiffer	strengthen a product by	apply scientific knowledge of	apply scientific knowledge to	knowledge to improve a made
KNOWLEDGE	stronger /	(if appropriate)	stiffening a given	electrical systems to	their product	product by
KINOVVLLDGL	stiffer.	and more stable.	part or reinforce a	their structural or	design by using	strengthening,
			part of the	mechanical product	pulleys, cams,	stiffening or
Substantive	I can make a	To know how to	structure.	(e.g. series circuits	gears, levers and	reinforcing.
knowledge	simple product	use wheels and		incorporating	linkages.	
	that moves.	axles, when	I can create a	switches, bulbs, buzzers and	l can use IT	To know which IT
	cut, fold, join,	appropriate to do so.	product with a simple mechanism	motors).	products to	product would further enhance a
	fix structure,	30.	(e.g. gears, pulleys,	motorsj.	products to program, monitor	specific product.
Procedural	wall, tower,	To know how	cams, levers and	I can use IT where	and control their	- La como la casaca.
Knowledge	framework,	simple	linkages).	appropriate to add	products.	I can use electrical
	weak, strong,	mechanisms		to the quality of the		systems correctly
	wood, plastic	work (e.g. sliders,	shell structure,	product (program,	frame structure,	and accurately to
	circle, triangle,		three-dimensional		stiffen,	enhance a given



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	To know where fruit and vegetables	To know where a variety of foods come from.	To know when food is available for harvesting and	To know that animals are reared and caught for food.	To know where and how certain foods are	thread, pinking shears, fastenings. To know how to explain how food ingredients should
	template, mark out, join, slider, lever, pivot, slot, bridge/guide,	moving, mechanism names of tools, equipment and materials used	accuracy, material, stiff, strong, reduce, reuse, recycle, corrugating, ribbing, laminating, font, lettering, text, graphics, decision,	allowance, mechanism, lever, linkage, pivot, slot, bridge, guide system, input, process, output linear, rotary, oscillating, reciprocating	transmit, axle, motor, circuit, switch, circuit diagram, annotated drawings, exploded diagrams, mechanical system, electrical system, input, process, output	(LED), series circuit parallel circuit. seam, seam allowance, wadding, reinforce right side, wrong side, hem, template, pattern pieces, name of textiles and fastenings used, pins, needles,
Key Vocab	square, rectangle, cuboid, cube, cylinder. joining and finishing techniques, tools, fabrics and components,	levers, wheels and axels). vehicle, wheel, axle, axle holder, chassis, body, cab assembling, cutting, joining, shaping, finishing, fixed, free,	(3-D) shape, net, cube, cuboid, prism, vertex, edge, face, length, width, breadth, capacity, marking out, scoring, shaping, tabs, adhesives, joining, assemble,	monitor and control). series circuit, fault, connection, finishing technique, strength, weakness, stiffening, templates, stitch, seam, seam	strengthen, reinforce, triangulation, stability, shape, join, temporary, permanent. pulley, drive belt, gear, rotation, spindle, driver, follower, ratio,	reed switch, toggle switch, push-to-make switch, push to-break switch, light dependent resistor (LDR), tilt switch, light emitting diode



Substantive Knowledge, Procedural Knowledge, Key Vocabulary.

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COOKING	come from.	Limourahaut	understand	To limous onfo	processed.	be stored and give
AND	I know which	I know about foods that	seasonality.	To know safe practices in the	I know how to be	reasons.
NUTRITION	foods are healthy and which are not.	support good health and the risks of eating	I know what a balanced diet looks like.	kitchen and can identify hazards (e.g. hazards when	both hygienic and safe in the kitchen.	I know the difference between a savoury and sweet

Substantive knowledge

Procedural Knowledge

Key Vocab

I can cut food safely I can use basic food handling, hygiene practices and personal hygiene.

I can follow a

given recipe to create a cold dish. names of equipment and fruit and utensils sensory vocabulary e.g. vegetable soft, juicy, names, names of equipment crunchy, sweet, and utensils sticky, smooth, sensory

too much sugar. I can follow safe

procedures for food safety and hygiene. I can follow a given healthy recipe to create a hot dish.

fruit and vegetable names, sharp, crisp, sour, I can demonstrate hygienic food preparation.

I can weigh out ingredients and follow a given healthy recipe to create a dish.

name of products, names of equipment, utensils, techniques and ingredients texture, taste, sweet, sour, hot, spicy, appearance, smell, preference, greasy, moist,

using an oven).

I can weigh and measure accurately (timings, dry ingredients and liquids) to create a dish.

name of products, names of equipment, utensils, techniques and ingredients texture, taste, sweet, sour, hot, spicy, appearance, smell, preference, greasy, moist, cook, fresh, savoury, hygienic, edible, grown, reared, caught,

I can prepare a healthy meal by selecting the appropriate ingredients in the first place (using appropriate cooking techniques).

ingredients, yeast, dough, bran, flour, wholemeal, unleavened, baking soda, spice, herbs fat, sugar, carbohydrate, protein, vitamins, nutrients,

dish and select ingredients accordingly.

I can prepare a healthy meal by selecting the appropriate ingredients in the first place (using appropriate cooking techniques).

ingredients, yeast, dough, bran, flour, wholemeal. unleavened, baking soda, spice, herbs fat, sugar, carbohydrate, protein, vitamins,



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	vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard flesh, skin, seed, pip, core, slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients.	hard flesh, skin, seed, pip, core, slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients	cook, fresh, savoury, hygienic, edible, grown, reared, caught, frozen, tinned, processed, seasonal, harvested healthy/varied diet	frozen, tinned, processed, seasonal, harvested healthy/varied diet	nutrition, healthy, varied, gluten, dairy, allergy, intolerance, savoury, source, seasonality utensils, combine, fold, knead, stir, pour, mix, rubbing in, whisk, beat, roll out, shape, sprinkle, crumble	nutrients, nutrition, healthy, varied, gluten, dairy, allergy, intolerance, savoury, source, seasonality utensils, combine, fold, knead, stir, pour, mix, rubbing in, whisk, beat, roll out, shape, sprinkle, crumble