	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
National	Children at the expected	Cooking and nutrition: Fruit	Mechanisms: Moving	Cooking and nutrition:	Structures: Pavilions	Electrical Systems: Doodlers	Textiles: Waistcoats
Curriculum	level of development will:	and vegetables Smoothie	monsters and Ferris	Eating seasonally			
			wheels		 Use research and 	 Use research and 	 Use research and
Pupils should be	<u>Textiles</u>	 Generate, develop, 		 Understand 	develop design	develop design	develop design
taught to:		model and communicate	 Design 	and apply	criteria to inform	criteria to inform the	criteria to inform
	 Develop small 	their ideas through	purposeful,	principles of a	the design of	design of innovative,	the design of
	motor skills so	talking, drawing,	functional,	healthy and	innovative,	functional, appealing	innovative,
	that they can	templates, mock- ups	appealing	varied diet.	functional,	products that are fit	functional,
	use a range of	and, where appropriate,	products for		appealing	for purpose, aimed at	appealing products
	tools	information and	themselves and	Prepare and	products that are	particular individuals	that are fit for
	competently,	communication	other users	cook variety of	fit for purpose,	or groups.	purpose, aimed at
	safely and	technology.	based on design criteria	predominantly	aimed at	• Coloct from and use a	particular individuals or
	Confidentity.	• Coloct from and use a	design criteria.	savoury dishes	individuals or	 Select from and use a wider range of tools 	groups
	-ELG: FINE Motor Skills>	Select from and use a	• Conorata	using a range	aroups	and aquinment to	groups.
		aquipment to perform	• Generate,	tochniquos	groups.	and equipment to	Conorata davalan
	small tools	practical tasks [for	and	techniques.	Generate	tasks [for example	model and
	including	example cutting	communicate	Understand	develop model	cutting shaning	communicate their
	scissors, paint	shaping, joining and	their ideas	seasonality	and communicate	ioining and finishing].	ideas through
	brushes and	finishing].	through talking.	and know	their ideas	accurately.	discussion.
	cutlery.		drawing,	where and	through	,	annotated
		• Select from and use a	templates,	how a variety	discussion,	 Investigate and 	sketches, cross-
	 Explore, use 	wide range of materials	mock- ups and,	of ingredients	annotated	analyse a range of	sectional and
	and refine a	and components,	where	are grown,	sketches, cross-	existing products.	exploded diagrams,
	variety of	including	appropriate,	reared, caught	sectional and		prototypes, pattern
	artistic effects	construction materials,	information	and	exploded	Evaluate their ideas	pieces and
	to express	textiles and ingredients,	and	processed.	diagrams,	and products against	computer- aided
	ideas	according to their	communication		prototypes,	their own design	design.
	and feelings.	characteristics.	technology.	Structures: Castles	pattern pieces	criteria and consider	
	Return to and				and computer	the views of others to	Select from and use
	build on their	Evaluate their ideas and	Select from and	Use research	aided design.	improve their work.	a wider range of
	previous	products against design	use a range of	and develop	- Colort from and		tools and
	learning,	criteria.	tools and	design criteria	 Select from and use a wider range 	Apply their	equipment to
	and	Understand where feed	nerform	dosign of	of tools and	to strongthon, stiffon	tasks [for example
	developing	Oliderstand where food comes from	perioriti practical tasks	innovative	equipment to	and reinforce	cutting shaning
	their ability to	comes nom.	Ifor	functional	perform practical	more complex	ioining and
	represent		example.	appealing	tasks [for	structures	finishing].
	them.	Structures: Windmills	cutting,	products that	example, cutting,		accurately.
	 ELG: Creating 		shaping, joining	are fit for	shaping, joining	Understand and use	
	with	 Design purposeful, 	and finishing].	purpose,	and finishing],	electrical systems in	Select from and use
	materials>	functional,		aimed at	accurately.	their products [for	a wider range of
	Safely use and	appealing products	 Select from and 	particular		example,	materials and
	explore a	for themselves and	use a wide	individuals or	 Select from and 	series circuits	components,
	variety of	other users	range of	groups.	use a wide range	incorporating	including
	materials,	based on design	materials and		of materials_and	switches, bulbs,	construction
	tools and	criteria.	components,	• Generate,	components,	buzzers and motors].	materials, textiles
	techniques,		including	develop,	including		and ingredients,
	experimenting	Generate, develop,	construction	model and	construction	Mechanical Systems: Making a	according to their
	with colour,	model and	materials,	communicate	materials, textiles	Pop-Up Book	Tunctional
	aesign,	communicate their	textiles and	their ideas	and ingredients,	a the second solution	properties and
	iexture, form	ideas through	according to	discussion	characteristics	Use research and develop device	aestrieut quairues.
	מווע ועווכנוטח.	taiking, drawing,		uiscussion,		aevelop design	
				annotateu		criteria to inform the	

-			-											
	•	ELG: Creating		templates, mock-		their		sketches,	•	Investigate and		design of innovative,	•	Investigate and
		with		ups and, where		characteristics.		cross-sectional		analyse a range of		functional, appealing		analyse a range of
		materials>		appropriate.				and exploded		existing products.		products that are fit		existing products.
		Sharo thoir		information and		Evoloro and		diagrams		existing productor		for nurnose aimed at		chisting products.
					•	Explore and		ulagranis,				tor purpose, annea at		
		creations,		communication		evaluate a		prototypes,	•	Evaluate their		particular individuals	•	Evaluate their ideas
		explaining the		technology.		range of		pattern pieces		ideas and		or groups.		and products
		process they				existing		and computer-		products against				against their own
		have used.	•	Select from and use		products.		aided design.		their own design	•	Generate, develop,		design criteria and
				a range of tools and		P				critoria and		model and		consider the views
		-			_			Coloct from						of others to
2	structure	5		equipment to	•	Evaluate their	•	Select from		consider the		communicate their		of others to
				perform practical		ideas and		and use a		views of others to		ideas through		improve their work.
	•	Develop small		tasks [for		products		wider range of		improve their		discussion, annotated		
		motor skills so		example, cutting,		against design		tools and		work.		sketches, cross-	Structure	: Playgrounds
		that they can		shaping, joining and		criteria.		equipment to				sectional and		
		uso a rango of		finishing				nerform		Apply their		exploded diagrams	•	Lico research and
		use a range or		misimgj.		E altra calence		perioritical tasks	•				•	
		tools			•	Explore and use				understanding of		prototypes, pattern		develop design
		competently,	•	Select from and use		mechanisms		[for example,		how to		pieces and computer-		criteria to inform
		safely and		a wide range of		[for example,		cutting,		strengthen,		aided design.		the design of
		confidently.		materials and		levers, sliders,		shaping,		stiffen and				innovative,
	•	FLG: Fine		components.		wheels and		ioining and		reinforce more	•	Select from and use a		functional
	•	Motor Ckilles		including		wheel in their		finiching		complex		wider range of tools		annealing products
						axiesj, in their		a seurately		complex		wider range of tools		appealing products
		Use a range of		construction		products.		accurately.		structures.		and equipment to		that are fit for
		small tools,		materials, textiles								perform practical		purpose, aimed at
		including		and ingredients,	•	Build	•	Select and use	Mechanic	al Systems:		tasks [for example,		particular
		scissors, paint		according to their		structures.		a wide range	Making a	slingshot Car		cutting, shaping,		individuals or
		hrushes and		characteristics.		exploring how		of materials				ioining and finishing]		groups
		cution				thou can be		and		Lico recearch and		accurately		8.0000
		cutiery.	_	Fuelese and				anu	•			accuratery.		Community devices
			•	Explore and		made stronger,		components,		develop design			•	Generate, develop,
	•	Explore, use		evaluate a range of		stiffer and		including		criteria to <u>i</u> nform				model and
		and refine a		existing products.		more stable		construction		the design of	•	Select from and use a		communicate their
		variety of				(Ferris Wheel).		materials,		innovative,		wider range of		ideas through
		artistic effects	•	Evaluate their ideas				textiles and		functional.		materials and		discussion.
		to express		and products	Structures	· Bahy Bear's		ingredients.		annealing		components		annotated
		ideac		against dosign	Chair	<u>, buby bear s</u>		according to		products that are		including construction		skatchas, cross
		lueas			<u>chun</u>					products that are				sketches, cross-
		and reelings.		criteria.				their		fit for purpose,		materials, textiles and		sectional and
					•	Design		characteristics.		aimed at		ingredients, according		exploded diagrams,
	•	Return to and	•	Build structures,		purposeful,				particular		to their functional		prototypes, pattern
		build on their		exploring how they		functional.	•	Investigate		individuals or		properties and		pieces and
		nrevious		can he made		annealing		and analyse a		groups.		aesthetic qualities.		computer- aided
		loarning		stronger stiffer and		products for		range of		0				dosign
		rediting,				the second second		ovicting		Comorato		Investigate and		ucsign.
		refining ideas		more stable.		themselves and		existing	•	Generate,	•	investigate and		
		and				other users		products.		develop, model		analyse a range of	•	Select from and use
		developing	•	Explore and use		based on				and communicate		existing products.		a wider range of
		their ability to		mechanisms [for		design criteria.	•	Evaluate their		their ideas				tools and
		represent		example, levers.				ideas and		through	•	Evaluate their ideas		equipment to
		them.		sliders wheels and	-	Generate		products		discussion		and products against		perform practical
				ovlacity wheels and		develop model		against their		annotated		thoir own docign		tasks [for ovample
		Current		axiesj, in their		uevelop, model		against their				unen own design		tasks [101 example,
	•	create		products.		and		own design		sketches, cross-		criteria and consider		cutting, snaping,
		collaboratively,				communicate		criteria and		sectional and		the views of others to		joining and
		sharing ideas,				their ideas		consider the		exploded		improve their work.		finishing],
		resources and	Textiles: F	Puppets		through talking.		views of		diagrams,				accurately.
		skills				drawing		others to		prototypes.	•	Understand and use		,
			_	Docian nurneceful		tomplates		improve their		nattern nieces	-	mochanical systems in	_	Soloct from and use
			•	Design purposeiul,		templates,		work		and computer		their and using the second	•	Sciect ITUIII allu USE
	•	ELG: Creating		functional,		mock- ups and,		WUIK.		and computer		their products [for		a wider range of
		with		appealing products		where				aided design.				materials and

_							
	materials>	for themselves and	appropriate,	 Apply their 		example, gears,	components,
	Safely use and	other user based on	information	understanding	 Select from and 	pulleys, cams, levers	including
	explore a	design criteria.	and	of how to	use a wider range	and linkages].	construction
	variety of		communication	strengthen,	of tools and		materials, textiles
	materials,	 Generate, develop, 	technology.	stiffen and	equipment to	Cooking and nutrition: What	and ingredients,
	tools and	model and		reinforce more	perform practical	could be healthier?	according to their
	techniques,	communicate their	 Select from and 	complex	tasks [for		functional
	experimenting	ideas through	use a range of	structures.	example, cutting.	 Use research and 	properties and
	with colour.	talking, drawing,	tools and		shaping, joining	develop design	aesthetic qualities.
	design.	templates, mock-	equipment to		and finishing]	criteria to inform the	
	texture form	ups and where	nerform	Digital World: Electronic	accurately	design of innovative	Investigate and
	and function	appropriate	perform practical tasks	Charm	accuracely.	functional annealing	analyse a range of
		information and	[for	<u>enam</u>		products that are fit	evisting products
	ELG: Croating	communication	ovamplo		 Solact from and 	for purpose pimod at	existing products.
	• ELG. Creating	tochnology	example,	Ose research	• Select If off and	nor purpose, aimed at	- Evoluato their ideas
	with	technology.	cutting,	and develop	use a wide range		Evaluate their ideas
	Chara thair	- Colort from and use	snaping, joining	design criteria	OI_materials and	or groups.	and products
		 Select from and use 	and inishing].	to inform the	components,		against their own
	creations,	a range of tools and		design of	Including	• Generate, develop,	design criteria and
	explaining the	equipment to	Select from and	innovative,	construction	model and	consider the views
	process they	perform practical	use a wide	functional,	materials, textiles	communicate their	of others to
	have used.	tasks [for example,	range of	appealing	and ingredients,	ideas through	improve their work.
		cutting, shaping,	materials and	products that	according to their	discussion, annotated	
		joining and	components,	are fit for	characteristics.	sketches, cross-	 Apply their
	Food	finishing].	including	purpose,		sectional and	understanding of
			construction	aimed at	 Investigate and 	exploded diagrams,	how to strengthen,
	Learn new	 Select from and use 	materials,	particular	analyse a range of	prototypes, pattern	stiffen and
	vocabulary.	a wide range of	textiles and	individuals or	existing products.	pieces and computer-	reinforce more
		materials and	ingredients,	groups.		aided design.	complex structures.
	Use new	components,	according to		Evaluate their		
	vocabulary	including	their	 Generate, 	ideas and	 Select from and use a 	Digital World: Navigating the
	throughout	construction	characteristics.	develop,	products against	wider range of tools	World
	the day.	materials, textiles		model and	their own design	and equipment to	
		and ingredients,	Evaluate their	communicate	criteria and	perform practical	 Use research and
	 ELG: Speaking> 	according to their	ideas and	their ideas	consider the	tasks [for example,	develop design
	Participate in	characteristics.	products	through	views of others to	cutting, shaping,	criteria to inform
	small group,		against design	discussion,	improve their	joining and finishing],	the design of
	class and	 Evaluate their ideas 	criteria.	annotated	work.	accurately.	innovative,
	one-to-one	and products		sketches,			functional,
	discussions,	against design	Build	cross-sectional	 Understand how 	 Investigate and 	appealing products
	offering their	criteria.	structures,	and exploded	key events and	analyse a range of	that are fit for
	own ideas,		exploring how	diagrams,	individuals in	existing products.	purpose, aimed at
	using		they can be	prototypes,	design and		particular
	recently		made stronger.	pattern pieces	technology have	 Evaluate their ideas 	individuals or
	introduced		stiffer and	and computer-	helped shape the	and products against	groups
	vocabulary		more stable.	aided design.	world	their own design	8
	· · · · · · · · · · · · · · · · · · ·			<u>_</u>	world.	criteria and consider	Generate develop
	Know and talk			 Investigate 	 Understand and 	the views of others to	model and
	about the			and analyse a	use mechanical	improve their work	communicate their
	different			range of	systems in their	improve their work.	ideas through
	factors that			existing	products	 Understand how key 	discussion
	actors that			nroducts	lfor avample	Onderstand now key	annotated
	support their overall			products.	lior example,	in design and	
	health and				gears, pulleys,		soctional and
	mediui anu			• Evaluate their	cams, levers and	technology	
	weilbeing:			ideas and	шпкаgesj.	nave neiped snape	exploded diagrams,
	nearrny eating.	1	1	products	1	the world.	prototypes, pattern

•	ELG: Managing	against their	Electrical Systems: Torches	•	Apply their		pieces and
	self> Manage	own design			understanding of		computer- aided
	their own basic	criteria	 Use research and 		computing to		design.
	hygiene and	and consider	develop design		program, monitor and		
	personal	the views of	criteria to inform		control their	•	Select from and use
	needs,	others to	the design of		products.		a wider range of
	including	improve their	innovative.		•		tools and
	understanding	work.	functional	•	Understand and apply		equinment to
	the		annealing	•	principles of a healthy		nerform practical
	importance	• Understand	appearing products that are		principles of a fleating		tacks [for oxample
	af healthy feed	• Onderstand	products that are		and varied diet.		tasks [10] example,
	of healthy food	now key	fit for purpose,				cutting, snaping,
	choices.	events and	aimed at	•	Prepare and cook		Joining and
		individuals in	particular		variety of		finishing],
•	Develop small	design and	individuals or		predominantly		accurately.
	motor skills so	technology	groups.		savoury dishes using a		
	that they can	have helped			range of cooking	•	Evaluate their ideas
	use a range of	shape the	Generate,		techniques.		and products
	tools	world.	develop, model		-		against their own
	competently,		and communicate	•	Understand		design criteria and
	safely and	Apply their	their ideas		seasonality and know		consider the views
	confidently	understanding	through		whore and how a		of others to
		of computing	discussion		where and now a		improvo thoir work
•	range of small	to program	annotated				improve their work.
		to program,			ingredients are		A stall all sta
	tools, including	monitor and	sketches, cross-		grown, reared, caught	•	Apply their
	scissors, paint	control their	sectional and		and processed.		understanding of
	brushes and	products.	exploded				computing to
	cutlery.		diagrams,				program, monitor
			prototypes,				and control their
•	Explore, use		pattern pieces				products.
	and refine a		and computer				
	variety of		aided design.				
	artistic effects						
	to express		 Select from and 				
	ideas		use a wider range				
	and feelings.		of tools and				
•	FLG: Creating		equipment to				
•	with		perform practical				
	matorials		tasks [for				
	Cafely use and		ovample cutting				
	Salely use and		shaping joining				
	explore a		and finishing				
	variety of		and finishing],				
	materials,		accurately.				
	tools and						
	techniques,						
	experimenting		 Select from and 				
	with colour,		use a wide range				
	design,		of materials and				
	texture, form		components,				
	and function.		including				
			construction				
•	Explore the		materials. textiles				
-	natural world		and ingredients				
	around them		according to their				
-			characteristics				
•	ELG. IIIe		characteristics.				
	Natural	1		1			

	World>Explore the natural world around them, making observations and drawing pictures of animals and plants.				• •	Investigate and analyse a range of existing products. Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. Understand how key events and individuals in design and technology have helped shape the world. Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors].		
		<u> </u>	By the end of the	e year, children should be abl	e to			
			Cook	ing and nutrition				
Vocabulary	Fruit Vegetables Safety Knife Blade Tool Edge Handle Chop Slice Cut Saucepan	fruit vegetable seed leaf root stem smoothie healthy carton design flavour peel slice		Climate Dry climate Exported Imported Mediterranean climate Nationality Nutrients Polar climate Recipe Seasonal food Seasons Temperate climate Tropical climate			Beef Cross-contamination Diet Ethical issues Farm Healthy Ingredients Method Nutrients Packaging Reared Recipe Research Substitute Supermarket Vegan Vegetarian Welfare	

Mechanisms							
Vocabulary			design design criteria wheel Ferris wheel pods axle axle axle holder frame mechanism				
				Structures			
Vocabulary	Join Stick Cut Bend Slot Scissors Measure Materials Fix	axle bridge design design criteria model net packaging structure template unstable stable stable strong weak	design criteria man-made natural properties structure stable shape model test	2D shapes 3D shapes Castle Design criteria Evaluate Facade Feature Flag Net Recyclable Scoring Stable Strong Structure Tab Weak	Aesthetic Cladding Design criteria Evaluation Frame structure Function Inspiration Pavilion Reinforce Stable Structure Target audience Target customer Texture Theme		Adapt Apparatus Bench hook Cladding Coping saw Design Dowel Evaluation Feedback Idea Jelutong Landscape Mark out Measure Modify Natural materials Plan view Playground Prototype Reinforce Sketch Strong Structure Tenon saw Texture
							User Vice Weak
		•	•	Textiles	•		
Vocabulary	Thread Weave Pattern Design Evaluate	decorate design fabric glue model hand puppet safety pin staple stencil template					Accurate Adapt Annotate Design Design criteria Detail Fabric Fastening Knot Properties Running-stitch Seam Sew

				Shape Target audience Target customer Template Thread Unique Waistcoat
	1	1		

Digital World Vocabulary	Year 3
	smart wearables
	product design
	digital revolution
	technology
	analogue
	digital
	feature
	function
	digital world
	Micro:bit
	electronic products
	program
	loops
	initiate
	simulator
	control
	monitor
	sense
	template
	develop
	fasten
	test
	user
	CAD (computer-aided design)
	point of sale
	display
	badge
	stand
	Show all

<u>Year 6</u>
3D CAD
Application (apps)
Biodegradable
Boolean
Cardinal compass
Client
Compass
Concept
Convince
Corrode
Duplicate
Environmentally friendly
Equipment
Feature
Finite
Function
Functional
GPS tracker
If statement
Infinite

Mechanical Systems – Vocabulary	Year 4
	Aesthetic
	Air resistance
	Chassis
	Design
	Design criteria
	Function
	Graphics
	Kinetic energy
	Mechanism
	Net
	Structure
	Year 5
	Aesthetic
	Computer-aided design (CAD)
	Caption
	Design

	Design brief
	Design criteria
	Exploded diagram
	Function
	Input
	Linkage
	Mechanism
	Motion
	Output
	Pivot
	Prototype
	Slider
	Structure
	Template
Electrical Systems Vocabulary	Year 4
	Battery
	Bulb
	Buzzer
	Cell
	Component
	Conductor
	Copper
	Design criteria
	Electrical item
	Electricity
	Electronic item
	Function
	Insulator
	Series circuit
	Switch
	Test
	Torch
	Wire
	Year 5
	Circuit component
	Configuration
	Current
	Develop

DIY
Investigate
Motor
Motorised
Problem solve
Product analysis
Series circuit
Stable
Target user