



EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Select appropriate	Have own ideas	Have own ideas and plan	Begin to research others'	Use research for design ideas	Use internet and	Draw on market research to
resources		what to do next	needs		questionnaires for	inform design
	Explain what I want			Show design meets a range of	research and design ideas	
Use gestures, talking	to do	Explain what I want to do	Show design meets a	requirements and is fit for purpose		Use research of user's
and arrangements of		and describe how I may do	range of requirements		Take a user's view into	individual needs, wants,
materials and	Explain what my	it		Begin to create own design criteria	account when designing	requirements for design
components to show	product is for, and		Describe purpose of			
design	how it will work	Explain purpose of	product	Have at least one idea about how to		Identify features of design
		product, how it will work	l	create product and suggest	Begin to consider	that will appeal to the
Use contexts set by	Use pictures and	and how it will be suitable	Follow a given design	improvements for design.	needs/wants of	intended user
the teacher and	words to plan, begin	for the user	criteria		individuals/groups when	
myself	to use models			Produce a plan and explain it to	designing and ensure	Create own design criteria
		Describe design using	Have at least one idea	others	product is fit for purpose	and specification
Use language of	Design a product for	pictures, words, models,	about how to create			
designing and making	myself following	diagrams, begin to use ICT	product	Say how realistic plan is	Create own design criteria	Come up with innovative
(join, build, shape,	design criteria					design ideas
longer, shorter,	Bararan la struction	Design products for myself	Create a plan which shows	Include an annotated sketch	Have a range of ideas	Fallers and refine a legical
heavier etc.)	Research similar	and others following	order, equipment and	Make and evaluin design designer		Follow and refine a logical
	existing products	design criteria	tools	Make and explain design decisions	Due dues a la sisal maslistia	plan.
		Choose best tools and	Describe design using an	considering availability of resources	Produce a logical, realistic plan and explain it to	Use annotated sketches,
		materials, and explain	accurately labelled sketch	Explain how product will work	others.	cross-sectional planning
		choices	and words	Explain now product will work	others.	and exploded diagrams
		choices	and words	Make a prototype	Use cross-sectional	and exploded diagrams
		Use knowledge of existing	Make design decisions	wake a prototype	planning and annotated	Make design decisions,
		products to produce ideas	Wake design decisions	Begin to use computers to show	sketches	considering, resources and
		products to produce ideas	Explain how product will	design.	Sketches	cost
			work	design.		6031
			Work		Make design decisions	Clearly explain how parts of
			Make a prototype		considering time and	design will work, and how
			Make a prototype		resources.	they are fit for purpose
			Begin to use computers to		resources.	they are he for purpose
			show design		Clearly explain how parts	Independently model and
			Show design		of product will work.	refine design ideas by
					or product time trong	making prototypes and
						using pattern pieces
					Model and refine design	as
					ideas by making	Use computer-aided
					prototypes and using	designs
					pattern pieces.	
					Use computer-aided	
	1	1			designs	





Make						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Construct with a	Explain what I'm	Explain what I am	Select suitable	Select suitable tools and	Use selected	Use selected tools and
purpose, using a	making and why	making and why it fits	tools/equipment,	equipment, explain choices	tools/equipment with good	equipment precisely
variety of resources		the purpose	explain choices; begin	in relation to required	level of precision	
	Consider what I		to use them accurately	techniques and use		Select appropriate
Use simple tools	need to do next	Make suggestions as to		accurately	Produce suitable lists of	materials, fit for
and techniques		what I need to do next.	Select appropriate		tools, equipment/materials	purpose; explain choices,
	Select		materials, fit for	Select appropriate materials,	needed	considering functionality
Build / construct	tools/equipment	Join	purpose.	fit for purpose; explain		and aesthetics
with a wide range	to cut, shape, join,	materials/components		choices	Select appropriate materials,	
of objects	finish and explain	together in different	Work through plan in		fit for purpose; explain	Create, follow, and adapt
	choices	ways	order	Work through plan in order.	choices, considering	detailed step-by-step
Select tools &					functionality	plans
techniques to	Measure, mark	Measure, mark out, cut	Consider how good	Realise if product is going to		
shape, assemble	out, cut and	and shape materials and	product will be	be good quality	Create and follow detailed	Explain how product will
and join	shape, with	components, with			step-by-step plan	appeal to audience;
	support	support.	Begin to measure, mark	Measure, mark out, cut and		make changes to
Replicate structures			out, cut and shape	shape	Explain how product will	improve quality
with materials /	Choose suitable	Describe which tools I'm	materials/components	materials/components with	appeal to an audience	
components	materials and	using and why	with some accuracy	some accuracy		Accurately measure,
	explain choices		AU.		Mainly accurately measure,	mark out, cut and shape
Discuss how to		Choose suitable	Begin to assemble, join	Assemble, join and combine	mark out, cut and shape	materials / components
make an activity	Try to use	materials and explain	and combine materials	materials and components	materials/components	
safe and hygienic	finishing	choices depending on	and components with	with some accuracy		Accurately assemble,
	techniques to	characteristics.	some accuracy		Mainly accurately assemble,	join and combine
Record experiences	make product look			Apply a range of finishing	join and combine	materials / components
by drawing, writing,	good	Use finishing techniques	Begin to apply a range	techniques with some	materials/components	
voice recording		to make product look	of finishing techniques	accuracy		Accurately apply a range
	Work in a safe and	good	with some accuracy		Mainly accurately apply a	of finishing techniques
Understand	hygienic manner				range of finishing techniques	
different media can		Work safely and				Use techniques that
be combined for a		hygienically			Use techniques that involve	involve a number of
purpose					a small number of steps	steps
					Begin to be resourceful with	Be resourceful with
					practical problems	practical problems





Evaluate						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Adapt work if necessary	Talk about my work, linking it to what I was asked	Describe what went well, thinking about design criteria	Look at design criteria while designing and making	Refer to design criteria while designing and making	Evaluate quality of design while designing and making	Test and evaluate final product; explain what would improve it and the
Dismantle, examine, talk about existing objects/structures Consider and manage some risks Practise some appropriate safety measures independently Talk about how things work Look at similarities and differences between existing objects / materials / tools	to do Talk about existing products considering: use, materials, how they work, audience, where they might be used Talk about existing products, and say what is and isn't good Talk about things that other people have made	Talk about existing products considering: use, materials, how they work, audience, where they might be used; express personal opinion Evaluate how good existing products are Talk about what I would do differently if I were to do it again and why	Use design criteria to evaluate finished product Say what I would change to make design better Begin to evaluate existing products, considering: how well they have been made, materials, whether they work, how they have been made, fit for purpose Begin to understand by whom, when and where products were designed	Use criteria to evaluate product Begin to explain how I could improve original design Evaluate existing products, considering: how well they've been made, materials, whether they work, how they have been made, fit for purpose Discuss by whom, when and where products were designed Research whether products can be recycled or reused	Evaluate ideas and finished product against specification, considering purpose and appearance. Test and evaluate final product Evaluate and discuss existing products, considering: how well they've been made, materials, whether they work, how they have been made, fit for purpose Begin to evaluate how much products cost to make and how innovative they are	effect different resources may have had Do thorough evaluations of existing products considering: how well they've been made, materials, whether they work, how they've been made, fit for purpose Evaluate how much products cost to make and how innovative they are Research and discuss how sustainable materials are Discuss some key inventors/designers/
Show an interest in technological toys Describe textures	Begin to talk about what could make product better		Learn about some inventors/designers/ engineers/chefs/ manufacturers of ground-breaking products	Know about some inventors/designers/ engineers/chefs/manufactur ers of ground-breaking products	Research how sustainable materials are Talk about some key inventors/designers/ engineers/ chefs/manufacturers of ground-breaking products	engineers/ chefs/manufacturers of ground-breaking products
Vocabulary:	Vocabulary: evaluate, user, purpose, product,	Vocabulary: criteria, product, function	Vocabulary: prototype, annotated sketch, functional, innovative,	Vocabulary: design brief, design criteria, innovative, prototype, user, purpose, function, sensory evaluations	Vocabulary: functionality, authentic, design specification, annotate, evaluate, mock- up, prototype	Vocabulary: purpose design brief, design specification, prototype, research, functional, mockup, prototype





EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Begin to measure and	Measure materials	Use appropriate	Measure carefully to	Select materials	Select materials
	join materials, with		materials	avoid mistakes	carefully, considering	carefully, considering
	some support	Describe some different			intended use of product	intended use of the
		characteristics of	Work accurately to	Attempt to make	and appearance	product, the aesthetics
	Describe differences in	materials	make cuts and holes	product strong		and functionality.
	materials				Explain how product	
		Join materials in	Join materials	Continue working on	meets design criteria	Explain how product
	Suggest ways to make	different ways		product even if original		meets design criteria
	material/product		Begin to make strong	didn't work	Measure accurately	
	stronger	Use joining, rolling or	structures	• 0	enough to ensure	Reinforce and
		folding to make it		Make a strong, stiff	precision	strengthen a 3D frame
		stronger		structure		
					Ensure product is strong	
		Use own ideas to try to			and fit for purpose	
		make product stronger				
					Begin to reinforce and	
					strengthen a 3D frame	
Vocabulary:	Vocabulary:		Vocabulary:		Vocabulary:	
	cut, fold, join, fix structure,		shell structure, three dimensional (3-D) shape, net,		frame structure, stiffen, strengthen, reinforce,	
	weak, strong, base, top, w		cube, cuboid, prism, vertex, edge, face, length,		triangulation, stability, sha	pe, join, temporary,
	underneath, side, edge, su		width, breadth, capacity, marking out, scoring,		permanent	
	corner, point, straight, cur	ved, metal, wood, plastic	shaping, tabs, adhesives, joining, assemble,			
			accuracy, material, stiff, st			
			recycle, corrugating, ribbin	_		
			lettering, text, graphics, de	ecision,		





Mechanisms						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Begin to use levers or slides	Use levers or slides Begin to understand	Select appropriate tools / techniques	Select most appropriate tools / techniques	Refine product after testing	Refine product after testing, considering aesthetics, functionality
		how to use wheels and	Alter product after	Explain alterations to	Grow in confidence	and purpose
		axles	checking, to make it	product after checking it	about trying new /	
			better	Grow in confidence	different ideas	Incorporate hydraulics and pneumatics
			Begin to try	about trying new /	Begin to use cams,	
			new/different ideas	different ideas.	pulleys or gears to create movement	Be confident to try new / different ideas
			Use simple lever and	Use levers and linkages		
			linkages to create	to create movement		Use cams, pulleys and
			movement	Use pneumatics to create movement		gears to create movement
Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:		Vocabulary:	
	slider, lever, pivot, slot,	vehicle, wheel, axle, axle	mechanism, lever, linkage,	, pivot, slot, bridge, guide	pulley, drive belt, gear, r	otation, spindle, driver,
	bridge/guide, card,	holder, chassis, body,	system, input, process, ou	tput linear, rotary,	follower, ratio, transmit,	axle, motor, circuit, switch,
	masking tape, paper	cab assembling, cutting,	oscillating, reciprocating		circuit diagram, annotate	ed drawings, exploded
	fastener, join, pull, push,	joining, shaping,			diagrams, mechanical sy	stem, electrical system,
	up, down, straight,	finishing, fixed, free,			input, process, output	
	curve, forwards, backwards	moving, mechanisms.				





Textiles						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
LIIS	Measure, cut and join textiles to make a product, with some support Choose suitable textiles	Measure textiles Join textiles together to make a product, and explain how I did it Carefully cut textiles to produce accurate pieces Explain choices of textile Understand that a 3D textile structure can be made from two identical fabric shapes.	Join different textiles in different ways Choose textiles considering appearance and functionality Begin to understand that a simple fabric shape can be used to make a 3D textiles project	Think about user when choosing textiles Think about how to make product strong Begin to devise a template Explain how to join things in a different way Understand that a simple fabric shape can be used to make a 3D textiles project	Think about user and aesthetics when choosing textiles Use own template Think about how to make product strong and look better Think of a range of ways to join things Begin to understand that a single 3D textiles project can be made from a combination of fabric shapes.	Think about user's wants/needs and aesthetics when choosin textiles Make product attractive and strong Make a prototype Use a range of joining techniques Think about how product might be sold Think carefully about what would improve product Understand that a single 3D textiles project can b
),				made from a combination of fabric shapes.
Vocabulary:	Vocabulary:	1	Vocabulary:	•	Vocabulary:	· ·
•	joining and finishing techniques, tools, fabrics and components, template, pattern pieces, mark out, join, decorate, finish		fabric, names of fabrics, fastening, compartment, zip, button, structure, finishing technique, strength, weakness, stiffening, templates, stitch, seam, seam allowance		seam, seam allowance, wadding, reinforce, right side, wrong side, hem, template, pattern pieces, name of textiles and fastenings used, pins, needles, thread, pinking shears, fastenings,	





EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Begin to	Describe textures	Explain hygiene and	Carefully select ingredients	Explain how to be	Present product well -	Understand a recipe can
understand some		keep a hygienic		safe/hygienic	interesting, attractive, fit	be adapted by adding /
food preparation	Wash hands &	kitchen	Use equipment safely		for purpose	substituting ingredients
tools, techniques	clean surfaces			Think about presenting		
and processes		Describe properties of	Make product look	product in interesting/	Begin to understand	Explain seasonality of
	Think of	ingredients and	attractive	attractive ways	seasonality of foods	foods
Practise stirring,	interesting ways to	importance of varied				Language and family
mixing, pouring,	decorate food	diet	Think about how to grow	Understand ingredients can	Understand food can be	Learn about food
blending			plants to use in cooking	be fresh, pre-cooked or	grown, reared or caught in	processing methods
	Say where some	Say where food comes		processed	the UK and the wider world	Name some types of foo
Discuss how to	foods come from,	from (animal,	Begin to understand food	• 0		that are grown, reared o
make an activity	(i.e. plant or	underground etc.)	comes from UK and wider	Begin to understand about	Describe how recipes can	caught in the UK or wide
safe and hygienic	animal)		world	food being grown, reared or	be adapted to change	world
		Describe how food is		caught in the UK or wider	appearance, taste, texture,	World
Discuss use of	Describe	farmed, home-grown,	Describe how healthy diet=	world	aroma	Adapt recipes to change
senses	differences	caught	variety/balance of			appearance, taste,
	between some		food/drinks	Describe eat well plate and	Explain how there are	texture or aroma.
Understand need	food groups (i.e.	Draw eat well plate;		how a healthy diet=variety /	different substances in	
for variety in food	sweet, vegetable	explain there are	Explain how food and drink	balance of food and drinks	food / drink needed for	Prepare and cook a
	etc.)	groups of food	are needed for		health	variety of savoury dishes
Begin to			active/healthy bodies.	Explain importance of food		safely and hygienically
understand that	Discuss how fruit	Describe "five a day"		and drink for active, healthy	Prepare and cook some	including, where
eating well	and vegetables are		Prepare and cook some	bodies	savoury dishes safely and	appropriate, the use of
contributes to	healthy	Cut, peel and grate	dishes safely and		hygienically including,	heat source.
good health		with increasing	hygienically	Use some of the following	where appropriate, use of	
	Cut, peel and grate	confidence		techniques: peeling,	heat source	Use a range of technique
	safely, with		Grow in confidence using	chopping, slicing, grating,		confidently such as
	support		some of the following	mixing, spreading, kneading	Use range of techniques	peeling, chopping, slicing
			techniques: peeling,	and baking	such as peeling, chopping,	grating, mixing,
			chopping, slicing, grating,		slicing, grating, mixing,	spreading, kneading and
			mixing, spreading, kneading		spreading, kneading and	baking.
			and baking		baking.	
Vocabulary:	ry: Vocabulary: fruit and vegetable names, names of		Vocabulary:		Vocabulary:	
•			name of products, names of e	quipment, utensils, techniques	ingredients, yeast, dough, bra	n, flour, wholemeal,
	equipment and utens	-		and ingredients texture, taste, sweet, sour, hot, spicy,		e, herbs fat, sugar,
	e.g. soft, juicy, crunch	•	appearance, smell, preference		carbohydrate, protein, vitamir	_
	smooth, sharp, crisp,		savoury, hygienic, edible, grov	= -	healthy, varied, gluten, dairy,	
	seed, pip, core, slicing		tinned, processed, seasonal, h	=	savoury, source, seasonality u	





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squeezing, healthy diet, choosing,	knead, stir, pour, mix, rubbing in, whisk, beat, roll out,
ingredients,	shape, sprinkle, crumble

