

## **Progression of Skills and Knowledge for DT Developing, Planning and communicating ideas EYFS** Year 1 Year 2 Year 3 Year 4 Year 5 Year 6 -Follow verbal -Select appropriate -Think ahead -Use models, kits -Explain what -Investigate - Investigate they are making instructions technique explaining similar products about the order products/images and drawings to -Shows two--Explain what First.....Next.....Last.... to the one to be of their work and to collect ideas help formulate channelled -Select and name the tools decide upon -Sketch and model design ideas they are making made to give needed to work the attention - can and which starting points tools and alternative ideas -Make listen and do for materials they materials for a materials -Develop one idea prototypes a short amount -Use pictures and words to design -Develop more in depth -Use found are using -Draw/sketch -Combine of time. -Name the tools convey what they want to than one design information to - Responds to they are using design and make products to help or adaptation of modelling and inform decisions instructions -Describe what -Describe their models and analyse and an initial design drawing to refine -Draw plans involving a twothey need to do drawings of ideas and understand how -Propose realistic ideas which can be part sequence. -Plan the read/followed by next intentions products are suggestions as to -Use kits/reclaimed sequence of work - Listens and -Select materials made how they can someone else responds to ideas from a limited materials to develop an -Plan a sequence achieve their using a storyboard -Give a report expressed by range that will idea of actions to design ideas -Record ideas using correct others in meet the design -Discuss their work as it make a product using annotated technical conversation or criteria progresses -Record the plan diagrams vocabulary discussion. -Explore ideas by -Add notes to drawings to by drawing -Use a computer -Uses talk to rearranging help explanations (labelled to model ideas sketches) or organise, materials sequence and -Model ideas writing clarify thinking, with kits. ideas, feelings reclaimed materials and events. -Select pictures

to help develop

ideas



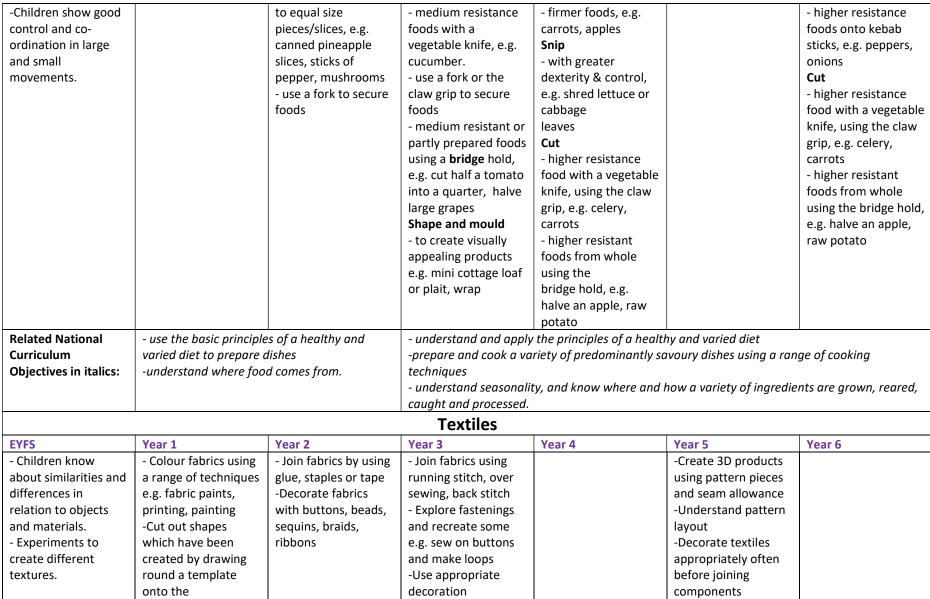
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	-Use drawings to						
	record ideas as						
	they are						
	developed						
Related National Curriculum Objectives in italics:	<b>Design</b> -design purposef products for themselves design criteria -generate, develop, mod	ul, functional, appealing and other users based on lel and communicate thei	functional, appear groups -generate, develo	-generate, develop, model and communicate their ideas through discussion, annotated			
	ideas through talking, di and, where appropriate, communication technolo	=					
		57	Food				
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Peel hand, e.g.	Peel	Peel	Peel	Press	Mix/stir	Peel	
satsuma, banana	- with a swivel peeler	- with a swivel peeler	- with a swivel peeler	- using a garlic press	- fold ingredients	- with a swivel peel to	
Mix/stir	with adult support	with adult support	with supervision	Peel	together carefully	create food ribbons	
- to loosely combine	Spread	Juice	Spread	- with a swivel peeler	Spoon	to be used in a dish,	
Ingredients	- soft ingredients, e.g.	- using a juicer to	- ingredients evenly	with supervision	- be able to gauge the	e.g.	
Spoon	jam	extract juice, e.g.	over another food	Mix/stir	quantities spooned	courgette/carrot	
- ingredients	Snip	orange	Grate	- any ingredients	to ensure an equal	ribbons with	
between containers	- fresh herbs, spring	Measure	- firmer foods, e.g.	thoroughly	amount	supervision	
Measure	onions	- using different size	carrots, apples	- whisk foods using a	of ingredient in each	Measure	
- using a spoon, e.g.	Grate	measuring spoons,	Snip	hand whisk	container	- using a measuring	
flour, dried fruit	- soft foods, e.g.	e.g. Liquids	- with greater	Spoon	Measure	jug independently	
- count ingredients	cheese, cucumber	- refer to ingredients	dexterity and control,	- be able to use two	- using a measuring	and accurately	
e.g. peas	Cut	in simple fractions,	e.g. to shred lettuce	spoons to transfer	jug independently	- using digital and	
Cut	- low resistance foods	e.g. half, quarter	or cabbage	ingredients into	and accurately	analogue scales	
- soft foods with	with a table knife in	Thread	leaves for salad	different size/shape	- using digital or	accurately and	
butter knife, e.g.	to equal size	- thread soft foods	Cut out	containers with	analogue scales	independently	
banana, strawberries	pieces/slices, e.g.	onto cocktail sticks,	- placing the cutter in	minimal spillage	accurately and	Grate	
-Shows increasing	canned pineapple	e.g. fruit kebab –	positions to make	Measure	independently	- using the zesting	
control over an	slices, sticks of	strawberries,	good of the material	- using measuring jug	Grate	part of a grater, e.g.	
objects including	pepper, mushrooms	satsuma segments	available and avoid	& digital or analogue	- using the zesting	lemon, orange	
pushing and pulling	- use a fork to secure	Cut	waste	scales with support	part of a grater, e.g.	- use a nutmeg grater	
it.	foods	- low resistance foods	Cut	to obtain accuracy	lemon, orange	Thread	
		with a table knife in		Grate	- use a nutmeg grater		



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- Manipulates	fabric		techniques e.g.		-Pin and tack fabric			
materials to achieve			appliqué (glued or		pieces together			
a planned effect.			simple stitches)		- Join fabrics using			
-Safely use and			-Create a simple		over sewing, back			
explore a variety of			pattern		stitch or blanket			
materials, tools and			-Understand the		stitch			
techniques,			need for patterns		- Combine fabrics to			
experimenting with					create more useful			
colour, design,					properties			
texture, form and					-Make quality			
function.					products			
Related National	Make -select from and	use a range of tools	Make - select from and	use a wider range of too	ols and equipment to perj	form practical tasks		
Curriculum	and equipment to perfe	orm practical tasks [for	[for example, cutting, s	haping, joining and finish	ning], accurately	•		
Objectives in italics:	example, cutting, shap	ing, joining and	-select from and use a	select from and use a wider range of materials and components, including construction				
	finishing]		materials, textiles and ingredients, according to their functional properties and aesthetic					
	- select from and use a	wide range of	qualities					
	materials and components, including construction materials, textiles and							
	ingredients, according	to their characteristics						
			Construction					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
-Uses simple tools to	-Make vehicles with	-Join appropriately	Make structures	-Incorporate a circuit	- Use bradawl to	-Control a model		
effect changes to	construction kits	for different	more stable by giving	with a bulb or buzzer	mark hole positions	using an ICT control		
materials.	which contain free	materials and	them a wide base	into a model	-Cut strip wood,	programme		
-Handles tools,	running wheels	situations e.g. glue,	-Prototype frame	-Create shell or frame	dowel, square	-Build frameworks		
construction and	- Use a range of	tape,	structures	structures,	section	using a range of		
malleable materials	materials to create	-Mark out materials	-Measure and mark	strengthen frames	wood accurately to	materials e.g. wood,		
safely and with	models with wheels	to be cut using a	square selection,	with diagonal struts	1mm	card corrugated		
increasing control.	and axles e.g. tubes,	template	strip and dowel		- Join materials using	plastic to support		
increasing control.	dowel, cotton reels	-With an adult use a	accordingly to 1cm		appropriate methods	mechanisms		
	- Attach wheels to a	glue gun.	-Use glue gun with		-Incorporate motor	- Use glue gun with		
	chassis using an axle	0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	close supervision		and a switch into a	close supervision		
			(one to one)		model	-Use a basic CAM		
			(3.13 00 0.10)		-Control a model	mechanism to design		
					using a simple	a moving toy.		
					control programme	2		
		1			control programmic			



Related National Curriculum Objectives in italics:	example, cutting, shap finishing] -select from and use a and components, inclu	wide range of materials ding construction ingredients, according build structures, a be made stronger, anisms [for example,	example, cutting, shap - select from and use a materials, textiles and qualities  Technical knowledge - more complex structur -understand and use m levers and linkages] - understand and use e incorporating switches	ning, joining and finishing wider range of materic ingredients, according apply their understand researchanical systems in the state of the state of the systems in the state of the state	als and components, included to their functional propertion ing of how to strengthen, neir products [for example in products [for example, so	ding construction ties and aesthetic stiffen and reinforce , gears, pulleys, cams, series circuits
	products.		Sheet Materials			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
- Uses simple tools to effect changes to materialsHandles tools, construction and malleable materials safely and with increasing control.	-Fold, tear and cut paper and card -Roll paper to create tubes -Cut along lines, straight and curved -Curl paper - Use hole punch	- Insert paper fasteners for card linkages -Use lolly sticks/card to make levers and linkages -Create hinges -Investigate strengthening sheet materials -Investigate joinings temporary, fixed and moving	-Cut slots -Cut internal shapes	- Use linkages to make movement larger or more variedUse and explore complex pop ups	-Cut slots -Cut accurately and safely to a marked line -Join and combing materials with temporary, fixed or moving joints.	-Use craft knife, cutting mat and safety ruler under one to one supervision if appropriate -Choose an appropriate sheet material for the purpose -Create nets
Related National Curriculum Objectives in italics:	Make -select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] - select from and use a wide range of materials and components, including		Make -select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately -select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities  Technical knowledge -apply their understanding of how to strengthen, stiffen and reinforce more complex structures			



	construction materials,	textiles and	-understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]					
	ingredients, according	to their characteristics						
	Technical knowledge -	build structures,						
	exploring how they car	n be made stronger,						
	stiffer and more stable							
-explore and use mechanisms [for example,								
	levers, sliders, wheels of	and axles], in their						
	products.							
			<b>Evaluating</b>					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
- achieving what they	-Say what they like	-Explore what	- Identify the	-Discuss how well the	-Use the design	- Identify what does		
set out to achieve.	and do not like about	existing products	strengths and	finished product	criteria to inform	and does not work in		
-Show satisfaction in	items they have	are/what for/how	weaknesses of their	meets the design	their decisions about	the product and		
meeting their own	made and attempt to	they work/how they	design ideas	criteria and how well	ways to proceed	suggest		
goals.	say why	are used/materials	-Decide which design	it meets the needs of	- Justify their	improvements.		
-Being proud of how	-Talk about changes	used/likes and	idea to develop	the user.	decisions about	-Reflect on their work		
they accomplished	made during the	dislikes about a	-Consider and explain		materials and	using design criteria		
something – not just	making process	product	how the finished		methods of	stating how well the		
the end results.	-Discuss how closely	-Talk about their	product could be		construction	design fits the needs		
-Enjoy meeting	their finished	designs as they	improved		- Make suggestions	of the user		
challenges for their	products meet their	develop and identify			as how their design			
own sake rather than	design criteria	good and bad points			could be improved			
external rewards or								
praise.								
Related National	<b>Evaluate</b> - explore and	re and evaluate a range of <b>Evaluate</b> -investigate and analyse a range of existing products						
Curriculum	existing products		-evaluate their ideas and products against their own design criteria and consider the views of					
Objectives in italics:	-evaluate their ideas and products against		others to improve their work					
	design criteria		- understand how key events and individuals in design and technology have helped shape the world					