

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		
 Explain what they are making -Shows two-channelled attention Can listen and do for a short amount of time. Responds to instructions involving a two-part sequence. Listens and responds to ideas expressed by others in conversation or discussion. Uses talk to organise, sequence and clarify thinking, ideas, feelings and events. 	 Follow verbal instructions Explain what they are making and which materials they are using Name the tools they are using Describe what they need to do next Select materials from a limited range that will meet the design criteria Explore ideas by rearranging materials Model ideas with kits, reclaimed materials Select pictures to help develop ideas Use drawings to record ideas as they are developed 	Select appropriate technique explaining FirstNextLast Select and name the tools needed to work the materials Use pictures and words to convey what they want to design and make Describe their models and drawings of ideas and intentions Use kits/reclaimed materials to develop an idea Discuss their work as it progresses Add notes to drawings to help explanations	 Investigate similar products to the one to be made to give starting points for a design Draw/sketch products to help analyse and understand how products are made Plan a sequence of actions to make a product Record the plan by drawing(labelled sketches) or writing 	 Think ahead about the order of their work and decide upon tools and materials Develop more than one design or adaptation of an initial design Propose realistic suggestions as to how they can achieve their design ideas 	 Investigate products/images to collect ideas Sketch and model alternative ideas Develop one idea in depth Combine modelling and drawing to refine ideas Plan the sequence of work using a storyboard Record ideas using annotated diagrams Use a computer to model ideas 	 Use models, kits and drawings to help formulate design ideas Make prototypes Use found information to inform decisions Draw plans which can be read/followed by someone else Give a report using correct technical vocabulary 		
Related National		ful, functional, appealing	Design - use research and d	•	•			
Curriculum Objectives	•	s and other users based on	appealing products that are			•		
in italics:	design criteria	del and communicate their	-generate, develop, model an		_			
	•	rawing, templates, mock-	sectional and exploded diagr	ums, prototypes, pattern p	oieces and computer-alded	uesiyii		



2CHOOL	ups and, where approproprogrammunication technology	oriate, information and ogy				
			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 medium resistance	to obtain accuracy	lemon, orange	Thread higher
-Children show good		with a table knife in to	foods with a vegetable	Grate firmer foods, e.g.	- use a nutmeg grater	resistance foods onto
control and co-		equal size pieces/slices,	knife, e.g. cucumber.	carrots, apples Snip		kebab sticks, e.g.
ordination in large and		e.g. canned pineapple	use a fork or the claw grip	with greater dexterity		peppers, onions
small movements.		slices, sticks of pepper,	to secure foods	& control,		Cut
		mushrooms	medium resistant or partly	e.g. shred lettuce or		higher resistance food
		- use a fork to secure	prepared foods using a	cabbage		with a vegetable knife,
		foods	bridge hold,	leaves		using the claw grip, e.g
			e.g. cut half a tomato into a	Cut		celery, carrots
			quarter, halve large grapes	higher resistance food		,,
			Shape and mould	with a vegetable knife,		



SCHOOL SCHOOL						
Related National Curriculum Objectives in italics:	- use the basic principle diet to prepare dishes -understand where food	s of a healthy and varied comes from.	to create visually appealing products e.g. mini cottage loaf or plait, wrap - understand and apply the -prepare and cook a variety - understand seasonality, an caught and processed.	of predominantly savoury	dishes using a range of cod	
			Textiles			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
 Children know about similarities and differences in relation to objects and materials. Experiments to create different textures. Manipulates materials to achieve a planned effect. Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. 	Colour fabrics using a range of techniques e.g. fabric paints, printing, painting Cut out shapes which have been created by drawing round a template onto the Fabric	•Join fabrics by using glue, staples or tape •Decorate fabrics with buttons, beads, sequins, braids, ribbons		•Join fabrics using running stitch, over sewing, back stitch •Explore fastenings and recreate some e.g. sew on buttons and make loops •-Use appropriate decoration techniques e.g. appliqué (glued or simple stitches) •Create a simple pattern •Understand the need for patterns	Create 3D products using pattern pieces and seam allowance Understand pattern layout Decorate textiles appropriately often before joining components	Create 3D products using pattern pieces and seam allowance Understand pattern layout Decorate textiles appropriately often before joining Components -Pin and tack fabric pieces together Join fabrics using over sewing, back stitch or blanket stitch Combine fabrics to create more useful properties Make quality products



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

- select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics

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

Construction

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
- Uses simple tools to effect changes to materials Handles tools, construction and malleable materials safely and with increasing control.	- Make vehicles with construction kits which contain free running wheels - Use a range of materials to create models with wheels and axles e.g. tubes, dowel, cotton reels - Attach wheels to a	- Join appropriately for different materials and situations e.g. glue, tape, - Mark out materials to be cut using a template - With an adult use a glue gun.	- Make structures more stable by giving them a wide base - Prototype frame structures - Measure and mark square selection, strip and dowel accordingly to 1cm - Use glue gun with close	- Incorporate a circuit with a bulb or buzzer into a model - Create shell or frame structures, strengthen frames with diagonal struts	- Use bradawl to mark hole positions - Cut strip wood, dowel, square section - wood accurately to 1mm - Join materials using appropriate methods - Incorporate motor	- Control a model using an ICT control programme - Build frameworks using a range of materials e.g. wood, card corrugated plastic to support mechanisms - Use glue gun with	
	chassis using an axle		supervision (one to one)		and a switch into a model - Control a model using a simple - control programme	close supervision - Use a basic CAM mechanism to design a moving toy.	
Related National	Make -select from and	use a range of tools and	Make -select from and use a	a wider range of tools and	equipment to perform prac	tical tasks [for example,	
Curriculum Objectives	equipment to perform p		cutting, shaping, joining and	•			
in italics:	•	ng, joining and finishing]	- select from and use a wider range of materials and components, including construction materials,				
	-select from and use a v		textiles and ingredients, according to their functional properties and aesthetic qualities				
	and components, includ	ing construction ingredients, according to	Technical knowledge -apply their understanding of how to strengthen, stiffen and reinforce more				
	their characteristics	ngrealents, according to	complex structures -understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and				
	Technical knowledge -	build structures.	linkages]				
	=	oloring how they can be made stronger, stiffer - understand and use electrical systems in their products [for example, series circuits					



SCHOOL .	-explore and use mech levers, sliders, wheels of products.		apply their understanding of computing to program, monitor and control their products.				
			Sheet Materials				
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
 Uses simple tools to effect changes to materials. Handles 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 varied. - Use 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:	equipment to perform example, cutting, shap - select from and use a and components, inclu- materials, textiles and	ing, joining and finishing] wide range of materials ding construction ingredients, according to chnical knowledge - build ow they can be made ore stable anisms [for example,	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 -understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]				
Evaluating							
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	



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 achieving what they 	 Say what they like 	- Explore what existing	- Identify the strengths and	- Discuss how well the	- Use the design criteria	- Identify what does	
set out to achieve.	and do not like about	products are/what	weaknesses of their	finished product	to inform their	and does not work in	
- Show satisfaction in	items they have	for/how they	design ideas	meets the design	decisions about ways	the product and	
meeting their own	made and attempt to	work/how they are	- Decide which design idea	criteria and how well	to proceed	suggest	
goals.	say why	used/materials	to develop	it meets the needs of	- Justify their decisions	improvements.	
- Being proud of how	- Talk about changes	used/likes and dislikes	- Consider and explain how	the user.	about materials and	- Reflect on their work	
they accomplished	made during the	about a product	the finished product could		methods of	using design criteria	
something – not just	making process	- Talk about their designs	be improved		construction	stating how well the	
the end results.	- Discuss how closely	as they develop and	•		- Make suggestions as	design fits the needs	
- Enjoy meeting	their finished	identify good and bad			how their design could	of the user	
challenges for their	products meet their	points			be improved		
own sake rather than	design criteria	P 0 0			20 m.p. 0 100		
external rewards or	acsign circena						
praise.							
Related National	Evaluate - explore and	evaluate a range of	Fualuate -investigate and a	naluse a range of evictina r	products		
Curriculum Objectives	existing products	evaluate a range of	Evaluate -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				
in italics:	5 ,	d products against design	improve their work				
iii italics.		a products against design					
	criteria - understand how key events and individuals in design and technology have helped shape the world					и ѕпире тпе жопа	