

Design Technology – Learning Progression

Key	EYFS	Y1	Y2	Y3	Y4	Y5	Y6
Area							
Design	Know that ideas are the 1st step in the making process. Know that a product can be made from a plan.	Know that a plan/design draws together ideas to make a product Know that there are different ways of creating a design. Know how to develop design ideas by applying findings from earlier research.	Know that a plan/design can be created and adapted. Know that some ways of developing, modelling and communicating ideas are more appropriate than others in the design process. Know how to identify simple design criteria.	Know how to identify a purpose and establish criteria for a successful product. Know that research can inform plans/design criteria which can be altered and improved for a range of purposes. Know how to make drawings with labels when designing. Know about designers in the outside world.	Know how to develop a clear idea of what has to be done; considering purpose, devising criteria, planning how to use equipment, materials and processes and suggesting alternative ideas. Know that the outcome from a design will be affected by the designer's choice. Know how to make detailed drawings with labels when designing. Know about designers in the outside world.	Know how to generate ideas and identify a purpose. Know how to create a specification for design. Know how to plan for equipment, materials and processes, suggesting alternative ideas in first attempts fail. Know that design of a product can be revisited and reshaped in stages and sections. Know how to make detailed labelled drawings from	Know how to develop a design specification. Know how to explore, develop and communicate aspects of design proposal by modelling ideas in a variety of ways. Know how to plan order of work by choosing appropriate materials, tools and techniques. Know that purpose and audience subsequently shapes the design of a product. Know how to communicate ideas

						different views showing different features. To know about designers in the industry and explain why they are successful.	through detailed labelled drawings. To know about designers in the industry and why they are successful.
Making	Know primarily through their own experiences that tools and materials can be safely used to make things.	Know that there is a range of different tools and materials which can be used to create a product.	Know that some tools and materials are more useful than others when creating a product.	Know that the characteristics of tools and materials informs their use in the making process. Know how to select suitable tools/equipment/mat erials and begin to use them accurately.	Know that the success of the making process is reliant on the accurate selection and use of appropriate tools and materials. Know how to select suitable tools/equipment/materials, explain choices and use accurately.	Know that a prototype is an experimental process and that preliminary versions can inform the final product. Know how to use selected tools/equipment/mat erials with good level of precision.	Know that a prototype can be refined, is a key part of the making process and can be tested out on a wide range of users so that the final product is fit for purpose. Know how to use selected tools/equipment/ materials precisely.
Evaluating	Know that an evaluation is a judgement.	Know that a simple evaluation can be used to improve a product.	Know that in order to evaluate ideas and products a set of design criteria is needed.	Know that the purpose of evaluation is for reflection and to help inform any changes required to make a product more effective. Know how to use design criteria to help with evaluation.	Know that your own evaluation and the views of others can lead to modifications to the criteria and the creation of a new and improved design. Know how to use design criteria to help with evaluation	Know that products have evolved over time as a result of constant evaluation and modification in line with the changing world. Know how to evaluate quality of design against specification considering purpose and appearance.	Know that evaluation of past and present DT leads to an understanding about its impact on modern day life. Know how to evaluate quality of design against specification stating if it is 'fit for purpose' and making judgements on appearance

Cooking	Know that	Know that	Know that food	Know how food is	Know how food is	Know how food is	Know how food is
and	there are	food can	choices have an	grown, reared, and	grown, reared, and	grown, reared, and	grown, reared, and
Nutrition	healthy and	contribute	impact on health.	caught in the UK and	caught in the UK and	caught and	caught and
	unhealthy	towards a		Europe.	Europe.	processed in the UK,	processed in the
	foods.	healthy diet.	To know about	Know that food can	Know that your own	Europe, and wider	UK, Europe, and
			the basic	be classified into	food choices have a	world.	wider world.
			principles of a	groups and that	direct impact on your	Know that it can be	Know that globally
		To know	healthy and	each group can	own health.	a challenge to apply	health can be
		about the	varied diet to	contribute towards a	Know how to explore	knowledge of a	adversely impacted
		basic	prepare dishes.	balanced diet.	and evaluate different	healthy diet where	when food choices
		principles of		Know how to	global foods	for a number of	are limited due to
		a healthy and	To know that	explore and evaluate	Know that there are a	factors, food or a	environmental and
	Know that	varied diet to	some food	different global	range of techniques	range of food is	social circumstances
	there are	prepare	sources are more	foods	that can be used in	limited.	beyond an
	lots of	dishes.	readily available	Know that food has	preparing and cooking	Know how to	individual's control.
	different		in different	a limited lifespan	different types of	explore and evaluate	Know how to
	foods.	Know that	countries and	without intervention	food.	different global	explore and
		food comes	different	and that there	To know how to read	foods	evaluate different
		from	climates.	are methods which	a scale and		global foods
		different	To know you	can prolong and	understand units of	Know that there are	
		sources.	follow a simple	preserve food.	measure.	different processes	Know that not all
			recipe to make	To know how to	To know how to	that food goes	countries have the
			food.	read a scale and	follow and begin to	through to get to	necessary
		To know you	To know the	understand units of	create a recipe.	the final product and	infrastructure to
		follow a	name of utensils	measure.	To know the name of	that there are	support food
		simple recipe	and equipment	To know how to	utensils and	complexities which	processes and
		to make	needed for food.	follow a recipe.	equipment needed	impact on the	distribution and
		food.	To know how to	To know the name	for food and how to	distribution of this	that this impacts on
			use utensils and	of utensils and	use them correctly.	food.	the ability to make
		To know	equipment	equipment needed	To know how to	To know,	food choices.
		some of the	correctly. To	for food.	control an oven or	understand and	To know,
		the name of	know the	To know how to use	hob for cooking.	apply the principles	understand and
		utensils and	principles of a	utensils and	To know how to	of a healthy and	apply the principles
		equipment	healthy and	equipment correctly.	prepare and cook a	varied diet.	

needed for	varied diet. (Eat	To know how to	variety of	To know how to	of a healthy and
food.	well plate).	control an oven or	predominately	prepare and cook a	varied diet.
	To know where	hob for cooking	savoury dishes using a	variety of	To know how to
To know th	food comes from.	To know how to	range of cooking	predominately	prepare and cook a
principles o	f To use the basic	prepare and cook a	techniques.	savoury dishes using	variety of
a healthy a	nd principles of a	variety of		a range of cooking	predominately
varied diet.	healthy and	predominately	To know what	techniques.	savoury dishes
(Eat well	varied diet to	savoury dishes using	hygiene means and	To know and	using a range of
plate).	prepare dishes.	a range of cooking	how to keep surfaces,	understand	cooking techniques.
		techniques.	utensils, and hands	seasonality.	To know and
To know			clean.	To know and be able	understand
where som	غ ا	To know what	To Know that there	to explain how to be	seasonality.
food comes		hygiene means and	are a range of	safe and hygienic.	To know and be
from.		how to keep	techniques that can	To know how to use	able to explain how
		surfaces, utensils,	be used in preparing	a range of	to be safe and
		and hands clean.	and cooking different	techniques with	hygienic.
		To Know that there	types of food	growing confidence.	To know that a
		are a range of	To know how to use	To know how to	recipe can be
		techniques that can	some techniques such	follow and create a	adapted by adding/
		be used in preparing	as peeling, chopping,	recipe.	substituting
		and cooking	slicing, grating, mixing		ingredients.
		different types of	kneading and baking.		To know how to use
		food			a range of
		To know how to use			techniques
		some techniques			confidently.
		such as peeling,			To know how to
		chopping, slicing,			follow and create a
		grating, mixing			recipe.
		kneading and			
		baking.			

Technical Knowled ge - Mechani sms, structure s and textiles		strong. Know that products Know to create moven. Know to create moven. Know to create moven.		hat can be can and to	materials can measured. Know that wh and axles can used to create movement. Know that tex can be joined make a produ		accurately. The else of the linkages can be used to create movement. The extiles of the linkages can be used to create movement.		de can be avoided by measuring careful e Know that linkage and pneumatics of be used to create movement.		need to be strong and fit for purpose by being precise. Know that linkages, pneumatics and cams can be used to create movement. The control of the control		Know that a 3D frame can be reinforced and strengthened. Know that linkages, pneumatics and cams, pulleys and gears can be used to create movement. Know that a 3D textiles product can be made by joining a combination of fabric shapes.		
	Proje Type			ı	EY/KS1 Cycle B		KS2 Cycle A		KS2 Cycle B		S2 Cycle C		KS2 Cycle D		
	Mech ms	chanis Pneur mini k		ntic	Wheel	Wheel and Axels: Fire engines		Make mountain cable cars		orches veh		m powered	Para mic	achutes and rocket	
	Struc s/ mate	Musical instruments		ents	Dominion			Aqueducts		Anglo-Saxon houses		, , ,		nukshuk rock art	
Food nutri		Healthy		Puppet Design			Trade	Tudor purses Greek style Pizzas			Preserving food - jam		Peg dolls Fruit Smoothies Mesolithic stewed fruit		
Vocabulary				otype, innovative, , research, evalua		•	funct	tionality, authentic	, use	r, market research					

	Sliders and	Wheels and axels:	Pneumatics:	Cams:
	<u>levers</u>	vehicle, wheel,	components, attaching, tubing, syringe,	cam, axle, shaft, crank, handle, housing,
	pivot, slot,	axle, axle holder,	plunger, split pin,	framework
	bridge/guide	chassis, body, cab	pneumatic system, input movement, process,	rotation, rotary motion, oscillating motion,
	card, masking	assembling, cutting,	output movement, control, compression,	reciprocating motion
	tape, paper	joining, shaping,	pressure, inflate, deflate, pump, seal, air-	mechanical system, input movement, process,
	fastener, join	finishing, fixed,	tight	output movement
Mechanis		free, moving,	linear, rotary, oscillating, reciprocating	Electrical circuits:
ms		mechanism	(motion)	series circuit, parallel circuit, names of switches
			Electrical circuits	and components, input device, output device,
			series circuit, fault, connection, toggle switch,	system, monitor, control, program, flowchart
			push-to-make switch, push-to-break switch,	
			battery, battery holder, bulb, bulb holder,	
			wire, insulator, conductor, crocodile clip	
			control, program, system, input device,	
			output device	
		e, wall, tower, framework, weak, strong, p, underneath, side, edge, surface, cuboid, prism, vertex, edge, face, length, width, breadth,		frame structure, stiffen, strengthen, reinforce, triangulation, stability, shape, join, temporary, permanent
	corner, point	ii, side, edge, sairace,	capacity	stability, shape, join, temporary, permanent
structures	thinner, thicker, strai	ght, curved	marking out, scoring, shaping, tabs, adhesives, joining,	
	metal, wood, plastic		assemble, stiff, strong, corrugating, ribbing, laminating	
			San, strong, corregating, noonig, idinimating	
		, staplers, staples, fabric	fabric, fastening, compartment, zip, button, structure,	seam, seam allowance, wadding, reinforce, right side, wrong side,
textiles	glue, template, pattern pie	oces mark out ioin	finishing technique, strength, weakness, stiffening, templates,	hem, template, pattern pieces
textiles	decorate, finish	eces, mark out, join,	stitch, seam, seam allowance, pattern pieces	pins, needles, thread, pinking shears, iron transfer paper
				mock-up, prototype
	fruit and vegetable na and utensils	ames, names of equipment	name of products, names of equipment, utensils, techniques and ingredients	ingredients, yeast, dough, bran, flour, wholemeal, unleavened, baking soda, spice, herbs
		.g. soft, juicy, crunchy,	texture, taste, sweet, sour, hot, spicy, appearance, smell,	fat, sugar, carbohydrate, protein, vitamins, nutrients, nutrition,
		n, sharp, crisp, sour, hard	preference, greasy, moist, cook, fresh, savoury, sensory	healthy, varied, gluten, dairy, allergy, intolerance, savoury,
Food	flesh, skin, seed, pip, slicing, peeling, cuttir		evaluations hygienic, edible, grown, reared, caught, frozen, tinned,	source, seasonality utensils, combine, fold, knead, stir, pour, mix, rubbing in, whisk,
	healthy diet, ingredie		processed, seasonal, harvested healthy/varied diet	beat, roll out, shape, sprinkle, crumble
	arranging,			