

Progression of Skills in Design and Technology

year expect learne	the minimum end of ations for our EYFS rs in relation to anding the World		5 5	y objectives are designed in pjectives. Each teacher show which have	uld be aware of their owr	1	5
	EYFS	Year I	Year 2	Year 3	Year 4	Year 5	Year 6
Key Vocabulary							
ub	Initiates conversations, attends to and takes account of what others say e.g. agreeing what materials to use. Can select and use resources with help. Begins to accept the needs of others and can take turns	Understanding contexts, users and purposes Begin to use simple design criteria; state what their products are, who and what they are for and how they will work.	Understanding contexts, users and purposes use simple design criteria; state what their products are, who and what they are for and how they will work.	Understanding contexts, users and purposes Begin to gather information about user needs; develop their own design criteria; describe the user, purpose and design features of their products and explain how they will work.	Understanding contexts, users and purposes gather information about user needs; develop their own design criteria; describe the user, purpose and design features of their products and explain how they will work.	Understanding contexts, users and purposes Begin to carry out research; develop a simple design specification; describe the user, purpose and design features of their products and explain how they will work.	Understanding contexts, users and purposes carry out research; develop a simple design specification; describe the user, purpose and design features of their products and explain how they will work.
Design	and share resources, sometimes with support from others e.g. sharing a construction kit. Constructs with a purpose in mind, using a variety of resources. • Manipulates materials to achieve a planned effect.	Generating, developing, modelling and communicating ideas Begin to generate ideas using their own experiences and existing products; use talk and drawing	Generating, developing, modelling and communicating ideas generate ideas using their own experiences and existing products; use talk, drawing, templates, mock-ups and, where appropriate, computers.	Generating, developing, modelling and communicating ideas Begin to generate realistic ideas based on user needs; use a range of drawing skills, discussion, prototypes, pattern pieces and computer- aided design.	Generating, developing, modelling and communicating ideas generate realistic ideas based on user needs; use a range of drawing skills, discussion, prototypes, pattern pieces and computer-aided design.	Generating, developing, modelling and communicating ideas Begin to generate innovative ideas drawing on research; use a range of drawing skills, discussion, prototypes, pattern pieces and computer-aided design.	Generating, developing, modelling and communicating ideas generate innovative ideas drawing on research; use a range of drawing skills, discussion, prototypes, pattern pieces and computer-aided design.

Exploring and Using	Planning	Planning	Planning	Planning	Planning	Planning
Media and	plan by suggesting	plan by suggesting	Begin to order the	order the main stages	Begin to formulate lists	formulate lists of
Materials	what to do next	what to do next; select	main stages of	of making; select	of resources and step-	resources and step-by-
Shows an interest	select from a range	from a range of tools,	making; select suitable	suitable tools,	by-step plans; select	step plans; select
in technological toys	of tools and	equipment, materials	tools, equipment,	equipment, materials	suitable tools,	suitable tools,
with knobs or	equipment,	and components.	materials and	and components and	equipment, materials	equipment, materials
pulleys	explaining their choices		components and explain	explain their choices.	and components and	and components and
• Uses various	select from a range		their choices		explain their choices.	explain their choices.
construction	of materials and					
materials.	components					
 Beginning to 	according to their					
construct, stacking	characteristics					
blocks vertically and	Practical skills and	Practical skills and	Practical skills and	Practical skills and	Practical skills and	Practical skills and
horizontally,	techniques	techniques	techniques	techniques	techniques	techniques
making enclosures	Begin to follow	follow procedures for	Begin to follow	follow procedures for	Begin to follow	follow procedures for
and creating spaces.	procedures for safety	safety and hygiene;	procedures for safety	safety and hygiene;	procedures for safety	safety and hygiene;
 Joins construction 	and hygiene; measure,	measure, mark out,	and hygiene; use a	use a wider range of	and hygiene; use a	use a wider range of
pieces together to	mark out, cut, shape,	cut, shape, assemble,	wider range of	materials and	wider range of	materials and
build and balance.	assemble, join, combine	join, combine and	materials and	components; measure,	materials and	components; measure,
• Realises tools can	and finish a range of	finish a range of	components; measure,	mark out, cut, shape,	components; measure,	mark out, cut, shape,
be used for a	materials and	materials and	mark out, cut, shape,	assemble, join, combine	mark out, cut, shape,	assemble, join, combine
purpose.	components.	components.	assemble, join, combine	and finish with some	assemble, join, combine	and finish with
 Uses simple tools 			and finish with some	accuracy.	and finish with	accuracy.
and techniques			accuracy		accuracy	
competently and						
appropriately.						
 Selects 						
appropriate						
resources and						
adapts work where						
necessary.						
 Selects tools and 						
techniques needed						
to shape, assemble						
and join materials						
they are using.						

Making

	Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images						
	Confident to speak to others about own needs, wants, interests and opinions e.g. what they like or dislike about an everyday product.	Own ideas and products With support, make simple judgements about their products and ideas against design criteria	Own ideas and products make simple judgements about their products and ideas against design criteria.	Own ideas and products Begin to evaluate their ideas and products against their design criteria.	Own ideas and products evaluate their ideas and products against their design criteria.	Own ideas and products Begin to identify strengths and areas to develop in their ideas and products against their design specification; consider the views of others to make improvements.	Own ideas and products identify strengths and areas to develop in their ideas and products against their design specification; consider the views of others to make improvements.
Evaluate		Existing products Begin to explore who and what products are for, how they work and are used, what materials they are made from and what they like and dislike about them.	Existing products explore who and what products are for, how they work and are used, what materials they are made from and what they like and dislike about them.	Existing products Begin to investigate how well products have been designed and made, whether they are fit for purpose and meet user needs; why materials have been chosen, the methods of construction used and how well they work.	Existing products investigate how well products have been designed and made, whether they are fit for purpose and meet user needs; why materials have been chosen, the methods of construction used and how well they work.	Existing products Begin to investigate how well products have been designed and made, whether they are fit for purpose and meet user needs; why materials have been chosen, the methods of construction used, how well they work, and how innovative and sustainable they are	Existing products investigate how well products have been designed and made, whether they are fit for purpose and meet user needs; why materials have been chosen, the methods of construction used, how well they work, and how innovative and sustainable they are.
		Key events and individuals	Key events and individuals	Key events and individuals Begin to know about inventors, designers, engineers, chefs and	Key events and individuals know about inventors, designers, engineers, chefs and	Key events and individuals know about inventors, designers, engineers, chefs and	Key events and individuals know about inventors, designers, engineers, chefs and

				manufacturers who have developed ground- breaking products.	manu facturers who have developed ground- breaking products.	manufacturers who have developed ground- breaking products.	manufacturers who have developed ground-breaking
				51	51	51	products.
	Making products work	Making products work Textiles	Making products work know about the simple	Making products work Textiles	Making products work know that materials	Making products work Textiles	Making products work
	Explains own	have discussed their	working characteristics	have sufficient	have functional and	have used information	have functional and
	knowledge and	ideas as they developed	of materials and	understanding and	aesthetic qualities; that	from investigating	aesthetic qualities; that
	understanding, and	and be able to say	components, the	skills in working with	systems have an input,	Greek Sandals to	systems have an input,
	asks appropriate	what their design has	movement of simple	textiles to design and	process and output;	inform their own	process and output;
	questions of others	to do; have created a	mechanisms, how	make a Roman money	how to program a	designing and making;	how to program a
	e.g. sharing what	puppet that works (ie is	freestanding structures	pouch that meets their	computer to control	have developed their	computer to control
	they know about	the right size and	can be made stronger,	design criteria; have	their products; how to	skills in working with	and monitor their
	how a product	reflects the character)	stiffer and more	evaluated existing	make strong, stiff	textiles and will have	products; how to
	works.	using a given	stable; use the correct	products, testing	shell structures; use	designed and made a	reinforce and
8		technique; have	technical vocabulary.	fabrics to choose an	the correct technical	Greek Sandal using	strengthen a
Technical Knowledge	Textiles	stitched two pieces of		appropriate one; have	vocabulary.	appropriate materials	framework; use the
le	use a basic running	fabric together and	Textiles	applied decorative		and techniques; have	correct technical
Š	stich;	added features using	have worked with	techniques	Textiles	been able to evaluate	vocabulary.
, Ž	Describe how	appropriate materials	minimal guidance and	appropriately	Have written design	critically both the	
	different textiles	and techniques	with increasing care	Understand seam	criteria and designed a	appearance and	Textiles
g	feel	Colour fabrics using	using safely and with	allowance.	sleeve that matches	function of the Greek	have used information
ni.	Make a product	fabric paints, printing,	some accuracy the tools	Join fabrics using	this criteria, including	Sandal against the	from investigating
<u>-</u> 5	from textiles	painting etc.	and techniques shown	running stitch, over	a fastening of some	original specifications	bags to inform their
l s	by gluing	Cut out shapes using a	to them	sewing and back	kind.		own designing and
		template	make and/or use a	stitch.		Create 3D products	making; have
	Mechanisms	Join fabrics using	simple paper	Produce a prototype	Have made a template	using pattern pieces	developed their skills in
	Cut materials using	running stitch, glue,	pattern/template to cut	using J cloths.	for their book sleeve.	and seam allowance.	working with textiles
	scissors	staples, over sewing	out accurate pieces	Use appropriate		Understand pattern	and will have designed
	Describe the	and tape.	Colour fabrics using	decoration techniques	Have assembled their	layout.	and made a bag using
	materials using	Decorate fabrics with	fabric paints, printing,	(for example	book sleeve using any	Decorate textiles	appropriate materials
	different words	buttons, beads, sequins,	painting etc.	appliqué).	stitch they are	appropriately, often	and techniques; have
		braids and ribbons.	Cut out shapes using a	Create a simple	comfortable with.	before joining	been able to evaluate
			template.	pattern.		components.	critically both the
		Mechanisms	Join fabrics using		Understand seam	Pin and tack fabric	appearance and
		have gained an	running stitch, glue,	Mechanisms	allowance.	pieces together.	function of the bag
		understanding of how					

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	mple mechanisms	staples, over sewing	have developed an	Join fabrics using	Join fabrics using over	against the original
	elated to moving	and tape.	understanding of	running stitch, over	sewing, back stitch and	specifications;
	ehicles work, after	Decorate fabrics with	simple pneumatic	sewing and back	blanket stitch.	understand that a
	larifying their ideas	buttons, beads, sequins,	systems; have worked	stitch.	Combine fabrics to	pattern/template must
	nrough discussion;	braids and ribbons	as part of a team to	Explore fastenings and	create more useful	be used to make a baq; use a variety of
ha	ave made a wheeled		design and make a	recreate some (for	properties	5 5
Ve	ehicle which moves	Mechanisms	train with at least one	example sew on buttons		sewing and decorating techniques and choose
ar	nd which generally	have gained an	moving part controlled	and make loops).		C
m	natches their design	understanding of	by a pneumatic system	Produce a prototype	Mechanisms	appropriate; join the fabric parts
in	rtention	simple winding		using J cloths.	have used their	and use decorative
		mechanisms and made		Use appropriate	knowledge of the	techniques to achieve a
		realistic suggestions as		decoration techniques	movement made by the	well-constructed and
		to how their ideas can		(for example	cam in the design of	finished baq;
		be achieved; have		appliqué).	their toy; have	
		constructed		Create a simple	produced sketches and	Create 3D products
		mechanisms using		pattern.	step-by-step plans and	using pattern pieces
		construction kits and		1	identified tools and	and seam allowance
		reclaimed materials;		Mechanisms	materials; have	Understand pattern
		have made the parts		have reinforced their	measured, marked out	layout
		have been able to say		understanding of how	and cut accurately,	Decorate textiles
		what works well in		a simple battery-	evaluating their work	appropriately, often
		their model		operated circuit works	as it develops and at	before joining
				and how this can be	the end	components
				controlled by employing		Pin and tack fabric
				different kinds of		pieces together
				switches, including		Join fabrics using over
				those operated by a		sewing, back stitch and
				control box or program;		blanket stitch
				have made something		Combine fabrics to
				which lights up,		create more useful
				identifying the specific		properties
				needs of a chosen user		
				and evaluating it		
				against design criteria		Mechanisms
				Incorporate a circuit		have become familiar
				with a bulb or buzzer		with how an electric
				into a model.		motor behaves when

Cooking and Nutrition	Food preparation, cooking and nutrition Describe the texture of foods Wash their hands Think of interesting ways of decorating food they have made, e.g. cakes	Where food comes from Begin to understand that food comes from plants and animals.	Where food comes from know that food comes from plants or animals and that it is farmed or caught.	Where food comes from Begin to understand that food is grown, reared and caught in the UK, Europe and the wider world.	Create shell or frame structures, strengthen frames with diagonal struts. Make structures more stable by giving them a wider base. Prototype frame and shell structures Measure and mark square selection, strip and dowel. Use glue gun under supervision. Where food comes from know that food is grown, reared and caught in the UK, Europe and the wider world.	Where food comes from Begin to understand that food is grown, reared and caught in the UK, Europe and the wider world; that seasons may affect the food available; how food is processed into ingredients.	connected in an electrical circuit; have generated several ideas to choose from; have harnessed the rotation produced by the motor to drive a moving part on a model they have made, employing belts and pulleys; have designed, made, evaluated and modified their ride and linked it to computer control Where food comes from know that food is grown, reared and caught in the UK, Europe and the wider world; that seasons may affect the food available; how food is processed into ingredients.
nd	Eats a healthy	Food preparation,	Food preparation,	Food preparation,	Food preparation,	Food preparation,	Food preparation,
б	range of	cooking and nutrition	cooking and nutrition	cooking and nutrition	cooking and nutrition	cooking and nutrition	cooking and nutrition
ng Lg	foodstuffs and		know how to prepare	Begin to understand	know how to prepare a	Begin to understand	know how to prepare
oki	understands need	Start to understand	simple dishes safely	how to prepare a	variety of dishes	how to prepare and	and cook a variety of
) ()	for variety in	how to name and	and hygienically	variety of dishes	safely and	cook a variety of	dishes safely and
	food.	sort foods into the	without a heat source,	safely and	hygienically; that a	dishes safely and	hygienically using,
		five groups in 'The	name and sort foods	hygienically; that a	healthy diet is made	hygienically using,	where appropriate, a
	Peel – by hand, e.g.	Eat well plate'	into groups; know that	healthy diet is made	from a variety and	where appropriate, a	heat source; that
	satsuma, banana		everyone should eat at	from a variety and	balance of different	heat source; that	different food and
		They should know that	least five portions of	balance of different	food and drink; that	different food and	drink contain
		a healthy diet		food and drink; that	food and drink are	drink contain	nutrients, water and

Shape - foods by	comprises food and	fruit and vegetables a	food and drink are	needed to provide	nutrients, water and	fibre that are needed
hand and with a	drinks from	day.	needed to provide	energy for the body.	fibre that are needed	for health.
rolling pin	each of the food		energy for the body.		for health.	
	groups	Peel - with a swivel		Shape and mould - to		Mix/stir - fold
Cut - soft foods		peeler with adult	Peel	create visually	Mix/stir - fold	ingredients together
with butter knife,	Thread - thread soft	support	- with a swivel peeler	appealing products e.g.	ingredients together	carefully
e.g. banana,	foods onto cocktail		with	Egyptian Flat Bread	carefully	
canned peach slices	sticks, e.g. fruit kebab	Spread - soft	Supervision			Grate - using the
	— strawberries,	ingredients, e.g.		Mix/stir - any	Peel - with a swivel	zesting part of a
Cut out -	Satsuma segments	hummus	Cut - medium	ingredients thoroughly	peel to create food	grater, e.g. lemon,
ingredients with a			resistance foods with a		ribbons to be used in a	orange – use a nutmeg
cutter,	Cut - low resistance	Grate - soft foods,	vegetable knife, e.g.	Grate - firmer foods,	dish, e.g.	grater
	foods with a table	e.g. cheese, cucumber	cucumber. – use a	e.g. carrots, apples	courgette/carrot	
Spoon - ingredients	knife in to equal size		fork or the claw grip		ribbons with supervision	Cut - higher resistance
between containers	pieces/slices, e.g.	Cut - low resistance	to secure foods	Cut - medium		food with a vegetable
	canned pineapple slices,	foods with a table		resistance foods with a		knife, using the claw
Mix/stir - to loosely	sticks of pepper,	knife in to equal size		vegetable knife, e.g.		grip, e.g. celery,
combine ingredients	mushrooms – use a	pieces/slices, e.g.		cucumber. – use a		carrots – higher
– mash ingredients	fork to secure foods	canned pineapple slices,		fork or the claw grip		resistant foods from
together using a		sticks of pepper,		to secure foods		whole using the bridge
fork		mushrooms – use a				hold, e.g. halve an
		fork to secure foods		Carryout – instructions		apple, raw potato
				independently		Peel - with a swivel
						peel to create food
						ribbons to be used in a
						dish, e.q.
						courgette/carrot
						ribbons with
						supervision