



			Design			
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Select	have own ideas	 have own ideas 	begin to research	use research for	use internet and	draw on market
appropriate	 explain what I 	and plan what to	others' needs	design ideas	questionnaires for	research to
resources	want to do	do next	 show design 	 show design 	research and	inform design
• Use	 explain what 	 explain what I 	meets a range of	meets a range of	design ideas	 use research of
gestures,	my product is for,	want to do and	requirements	requirements and	 take a user's 	user's individual
talking and	and how it will	describe how I	 describe 	is fit for purpose	view into account	needs, wants,
arrangements	work	may do it	purpose of	 begin to create 	when designing	requirements for
of materials	 use pictures 	 explain purpose 	product	own design	 begin to 	design
and	and words to	of product, how it	 follow a given 	criteria	consider	 identify
components	plan, begin to use	will work and	design criteria	 have at least 	needs/wants of	features of design
to show	models	how it will be	 have at least 	one idea about	individuals/groups	that will appeal to
design	 design a 	suitable for the	one idea about	how to create a	when designing	the intended user
• Use	product for	user	how to create	product and	and ensure	 create own
contexts set	myself following	 describe design 	product	suggest	product is fit for	design criteria
by the	design criteria	using pictures,	 create a plan 	improvements for	purpose	and specification
teacher and	 research similar 	words, models,	which shows	design.	 create own 	 come up with
myself	existing products	diagrams, begin	order, equipment	 produce a plan 	design criteria	innovative design
• Use		to use ICT	and tools	and explain it to	 have a range of 	ideas
language of		 design products 	 describe design 	others	ideas	 *follow and
designing and		for myself and	using an	 say how 	 produce a 	refine a logical
making (join,		others following	accurately	realistic the plan	logical, realistic	plan.
build, shape,		design criteria	labelled sketch	is.	plan and explain it	 use annotated
longer,		 choose best 	and words	 include an 	to others.	sketches, cross-
shorter,		tools and	 make design 	annotated sketch	 use cross- 	sectional planning
heavier etc)		materials, and	decisions	 make and 	sectional planning	and exploded
		explain choices		explain design		diagrams





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 use knowledge 	 explain how 	decisions	and annotated	 make design
of existing	product will work	considering	sketches	decisions,
products to	 make a 	availability of	 make design 	considering,
produce ideas	prototype	resources	decisions	resources and
	 begin to use 	 explain how 	considering time	cost
	computers to	product will work	and resources.	 clearly explain
	show design	• make a	 clearly explain 	how parts of
		prototype	how parts of the	design will work,
		 begin to use 	product will work.	and how they are
		computers to	 model and 	fit for purpose
		show design.	refine design	 independently
			ideas by making	model and refine
			prototypes and	design ideas by
			using pattern	making
			pieces.	prototypes and
			• use computer-	using pattern
			aided designs	pieces
				• use computer-
				aided designs 1

	Make					
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Construct	explain what	explain what I am	select suitable	select suitable tools	use selected	 use selected tools
with a	I'm making and	making and why it fits	tools/equipment,	and equipment,	tools/equipment with	and equipment
purpose,	why	the purpose	explain choices; begin	explain choices in	good level of	precisely
using a	what I need to	 make suggestions 	to use them	relation to required	precision • produce	 produce suitable
variety of	do next	as to what I need to	accurately	techniques and use	suitable lists of tools,	lists of tools,
resources	 select 	do next.	 select appropriate 	accurately	equipment/materials	equipment, materials
• Use	tools/equipmen	● join	materials, fit for	 select appropriate 	needed select	needed, considering
simple tools	t to cut, shape,	materials/component	purpose.	materials, fit for	appropriate	constraints
					materials, fit for	



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and	join, finish and	s together in different	 work through plan 	purpose; explain	purpose; explain	 select appropriate
techniques	explain choices	ways	in order	choices	choices, considering	materials, fit for
• Build /	 measure, 	 measure, mark 	 consider how good 	 work through a 	functionality	purpose; explain
construct	mark out, cut	out, cut and shape	product will be	plan in order.	 create and follow 	choices, considering
with a wide	and shape, with	materials and	 begin to measure, 	 realise if product is 	detailed step-by-step	functionality and
range of	support	components, with	mark out, cut and	going to be good	plan	aesthetics
objects	 choose 	support.	shape	quality • measure,	 explain how 	 create, follow, and
 Select 	suitable	 describe which 	materials/component	mark out, cut and	product will appeal to	adapt detailed step-
tools &	materials and	tools I'm using and	s with some accuracy	shape	an audience	by-step plans
techniques	explain choices	why	 begin to assemble, 	materials/component	 mainly accurately 	 explain how
to shape,	 try to use 	 choose suitable 	join and combine	s with some accuracy	measure, mark out,	product will appeal to
assemble	finishing	materials and explain	materials and	 assemble, join and 	cut and shape	audience; make
and join	techniques to	choices depending on	components with	combine materials	materials/component	changes to improve
 Replicate 	make product	characteristics.	some accuracy	and components with	s • mainly accurately	quality
structures	look good	 use finishing 	 begin to apply a 	some accuracy	assemble, join and	 accurately
with	 work in a safe 	techniques to make	range of finishing	 apply a range of 	combine	measure, mark out,
materials /	and hygienic	product look good	techniques with some	finishing techniques	materials/component	cut and shape
component	manner	 work safely and 	accuracy	with some accuracy	s • mainly accurately	materials/component
s • Discuss		hygienically			apply a range of	S
how to					finishing techniques	 accurately
make an					 use techniques that 	assemble, join and
activity safe					involve a small	combine
and					number of steps	materials/component
hygienic					 begin to be 	S
 Record 					resourceful with	 accurately apply a
experiences					practical problems	range of finishing
by drawing,						techniques
writing,						 use techniques that
voice						involve a number of
recording						steps
•						 be resourceful with
Understand						practical problems





different			
media can			
be			
combined			
for a			
purpose			

	Evaluate					
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Adapt work	talk about my	describe what went	look at design criteria	refer to design criteria	 evaluate quality of 	evaluate quality of
if necessary	work, linking it	well, thinking about	while designing and	while designing and	design while	design while
•	to what I was	design criteria	making	making	designing and making	designing and making;
Dismantle,	asked to do	 talk about existing 	 use design criteria 	 use criteria to 	 evaluate ideas and 	is it fit for purpose?
examine,	 talk about 	products considering:	to evaluate finished	evaluate product	finished product	 keep checking
talk about	existing	use, materials, how	product	 begin to explain 	against specification,	design is best it can
existing	products	they work, audience,	 say what I would 	how I could improve	considering purpose	be.
objects/str	considering:	where they might be	change to make	original design	and appearance.	 evaluate ideas and
uctu res	use, materials,	used; express	design better	 evaluate existing 	 test and evaluate 	finished product
 Consider 	how they	personal opinion	 begin to evaluate 	products, considering:	final product	against specification,
and	work,	 evaluate how good 	existing products,	how well they've	 evaluate and 	stating if it's fit for
manage	audience,	existing products are	considering: how well	been made, materials,	discuss existing	purpose
some risks	where they	 talk about what I 	they have been made,	whether they work,	products, considering:	 test and evaluate
 Practise 	might be used	would do differently if	materials, whether	how they have been	how well they've	final product; explain
some	 talk about 	I were to do it again	they work, how they	made, fit for purpose	been made, materials,	what would improve
appropriat	existing	and why	have been made, fit	 discuss by whom, 	whether they work,	it and the effect
e safety	products, and		for purpose	when and where	how they have been	different resources
measures	say what is		 begin to understand 	products were	made, fit for purpose	may have had
independe	and isn't good		by whom, when and	designed	 begin to evaluate 	 do thorough
ntly	 talk about 		where products were	 research whether 	how much products	evaluations of existing
• Talk	things that		designed	products can be	cost to make and how	products considering:
about how				recycled or reused	innovative they are	how well they've



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Design and Technology

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things work	other people	 learn about some 	 know about some 	 research how 	been made, materials,
 Look at 	have made	inventors/designers /	inventors/designer s/	sustainable materials	whether they work,
similarities	 begin to talk 	engineers/chefs/	engineers/chefs/m	are	how they've been
and	about what	manufacturers of	anufacturers of	 talk about some key 	made, fit for purpose
differences	could make	ground-breaking	ground-breaking	inventors/designers/	 evaluate how much
between	product better	products	products	engineers/	products cost to make
existing				chefs/manufacturers	and how innovative
objects /				of ground-breaking	they are
materials /				products	 research and
tools					discuss how
 Show an 					sustainable materials
interest in					are
technologic					 consider the impact
al toys					of products beyond
 Describe 					their intended
textures					purpose
					 discuss some key
					inventors/designers/
					engineers/
					chefs/manufacturers
					of ground-breaking
					products





	End of Key Stage Expectations						
	End of KS1 expectation	End of KS2 expectation					
Design	 Design purposeful, functional, appealing products for themselves and other users based on design criteria Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology 	 Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design 					
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 construction materials, textiles and ingredients, according to their characteristics 	 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 					
Evaluate	 Explore and evaluate a range of existing products "Evaluate their ideas and products against design criteria 	 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 improve their work. Understand how key events and individuals in design and technology have helped shape the world 					
Technical Knowledge Mechanics	 Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. 	 Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] 					





	End of Key Stage Expectations						
	End of KS1 expectation	End of KS2 expectation					
Technical Knowledge Food & nutrition	 Use the basic principles of a healthy and varied diet to prepare dishes Understand where food comes from. 	 Understand and apply the principles of a healthy and varied diet Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. 					
Technical Knowledge Electrical Systems		 Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] 					



