Design and	Technology Skills Prog	gression – KS1 and KS2				
Checked by School	ol Leader/I Key Stage Leader	Name/ Signature/ Date:				
Checked by School	ol Curriculum Leader	Name/ Signature/ Date:				
Monitoring	Each individual school is responsible for ensuring the delivery of the National Curriculum 14 intentions within the school. The school is require regularly monitor the delivery of this Vertical Skills Progression Map. The school must complete an annual review of its School Vertical Progre Map to check the implementation of curriculum skills. Ongoing monitoring of planning, learning evidence and pupil knowledge will take place as part of good practice by subject and school learning evidence.					
	Information from monitoring will	be used to inform in school/ MAT CPD subject training.				
Curriculum Statement National	Purpose of Study Design and Technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming					
Curriculum 2014						
	Aims					
	The national curriculum for desig	n and technology aims to ensure that all pupils:				
	 develop the creative, te increasingly technological 	echnical and practical expertise needed to perform everyday tasks confidently and to participate successfully in ar al world				
	wide range of users	toire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a				
	 critique, evaluate and test their ideas and products and the work of others understand and apply the principles of nutrition and learn how to cook. 					
	Assessment By the end of each key stage, pup of study.	oils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme				

Key Stage 1

Subject Content

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home and school, gardens and playgrounds, the local community, industry and the wider environment].

Cooking and Nutrition Subject Content

As part of their work with food, pupils should be taught how to cook and apply the principles of nutrition and healthy eating. Instilling a love of cooking in pupils will also open a door to one of the great expressions of human creativity. Learning how to cook is a crucial life skill that enables pupils to feed themselves and others affordably and well. now and in later life.

well, now and in later life.							
National Curriculum 2014							
Кеу	Key Stage 1						
Learning Intentions	Non-Statutory						
Pupils should be taught about:							
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							
Make							
select from and use a range of tools and equipment to perform practical tasks							
select from and use a wide range of materials and components, including							
construction materials, textiles and ingredients, according to their characteristics							
Evaluate	[for example, cutting, shaping, joining and finishing]						
 explore and evaluate a range of existing products 							
 evaluate their ideas and products against design criteria 							
Technical knowledge							
 build structures, exploring how they can be made stronger, stiffer and 							
more stable							
 explore and use mechanisms in their products. 							
Cooking and Nutrition							
 use the basic principles of a healthy and varied diet to prepare dishes 	[for example, levers, sliders, wheels and axles],						
understand where food comes from.							

	Learning Progression Key Stage 1					
Designing	Progression Statement	Working Towards	Working At	Working Beyond		
	Understanding contexts, users and purposes	I can state what products I am designing and making. I can say whether my products are for myself or other Users.	I can work confidently within a range of contexts, such as imaginary, story-based, home, school, gardens, playgrounds, local community, industry and the wider environment. I can describe what my products are for. I can say how my products will work.	I can say how I will make my products suitable for their intended users.		
			I can use simple design criteria to help develop my ideas.			
	Generating, developing, modelling and communicating ideas	I can generate ideas by drawing on my own experiences.	I can use knowledge of existing products to help come up with ideas.	I can model ideas by exploring materials, components and construction kits and by making templates and mock-ups.		
			I can develop and communicate ideas by talking and Drawing.	I can use information and communication technology, where appropriate, to develop and communicate my ideas.		
Making	Progression Statement	Working Towards	Working At	Working Beyond		
	Planning	I can plan by suggesting what to do next.	I can select from a range of tools and equipment, explaining my choices.	I can select from a range of materials and components according to their characteristics.		
	Practical skills and techniques	I can begin to use procedures for safety and hygiene.	I can follow procedures for safety and hygiene.	I can confidently follow procedures for safety and hygiene, explaining procedures		

		I can use materials and components to make a product. I can begin to assemble, join and combine materials and components.	I can use materials and components, including construction materials and kits, textiles, food ingredients and mechanical components. I can measure, mark out, cut and shape materials and components. I can assemble, join and combine materials and components. I can use finishing techniques, including those from art and design.	I can use a range of materials and components, including construction materials and kits, textiles, food ingredients and mechanical components. I can measure, mark out, cut and shape materials and components with increasing accuracy. I can assemble, join and combine materials and components with confidence. I can use finishing techniques, including those from art and
Evaluating	Progression Statement	Working Towards	Working At	design, explaining my reasoning. Working Beyond
. 0	Own ideas and products	I can talk about my design ideas and what I am making.	I can make simple judgements about my products and ideas against design criteria.	I can suggest how my products could be improved based on the success criteria.
	Existing products	I can explain:	I can explain:	I can explain how products work.
		What products are. Who products are for.	What products are. Who products are for.	I can suggest how products are used, giving reasons for my views.
		What products are for.	What products are for. How products work.	I can suggest where products might be used. I can suggest what materials
				T can saggest what materials

Technical Knowledge	Progression Statement Making products work	Working Towards I can talk about the simple working characteristics of materials and components.	I can suggest how products are used. I can suggest where products might be used. I can suggest what materials products are made from. I can explain what I like and dislike about products. Working At I can talk about the movement of simple mechanisms such as levers, sliders, wheels and axles. I can explain how freestanding structures can be made stronger, stiffer and more stable. I know that a 3-D textiles	products are made from and why those materials have been chosen. I can explain what I like and dislike about products, giving reasons for my views. Working Beyond I know that food ingredients should be combined according to their sensory characteristics. I know the correct technical vocabulary for the projects I am undertaking.
			product can be assembled from two identical fabric shapes.	
Cooking and Nutrition	Progression Statement	Working Towards	Working At	Working Beyond
	Where food comes from	I can begin to recognise that all food comes from plants or animals.	I know that all food comes from plants or animals. I know that food has to be	I know and explain that all food comes from plants or animals, giving some examples.
		I can begin to recognise that food has to be farmed, grown elsewhere (e.g. home) or caught.	farmed, grown elsewhere (e.g. home) or caught	I know and explain that food has to be farmed, grown elsewhere (e.g. home) or caught, giving examples.

Food, pr	foo the I kr eat fru I ca suc	an begin to name and sort ods into the five groups in e eat-well plate. Inow that everyone should it at least five portions of uit and vegetables every day. In begin to use techniques ch as cutting, peeling and ating.	I can name and sort foods into the five groups in the eat-well plate. I know that everyone should eat at least five portions of fruit and vegetables every day, suggesting different fruits and vegetables. I can prepare simple dishes safely and hygienically, without using a heat source.	I can confidentially name and sort a number of foods into the five groups in the eat-well plate. I can confidently explain why everyone should eat at least five portions of fruit and vegetables every day, suggesting different fruits and vegetables. I can explain how to prepare simple dishes safely and hygienically, without using a heat source.
		= ' =	safely and hygienically, without	simple dishes safely and
			I can use techniques such as	
			cutting, peeling and grating.	I can use techniques such as cutting, peeling and grating and confidently carry these techniques out when producing a product.

Subject Content

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home, school, leisure, culture, enterprise, industry and the wider environment].

Cooking and Nutrition

As part of their work with food, pupils should be taught how to cook and apply the principles of nutrition and healthy eating. Instilling a love of cooking in pupils will also open a door to one of the great expressions of human creativity. Learning how to cook is a crucial life skill that enables pupils to feed themselves and others affordably and well, now and in later life.

National Curriculum 2014 Key Stage 2				
Learning Intentions Non-Statutory Pupils should be taught about				
Design 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 wider range of tools and equipment to perform practical tasks 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

- 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

- apply their understanding of how to strengthen, stiffen and reinforce more complex structures
- understand and use mechanical systems in their products
- understand and use electrical systems in their products
- apply their understanding of computing to program, monitor and control their products.

Cooking and Nutrition

- 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.

for example, [cutting, shaping, joining and finishing]

- [for example, gears, pulleys, cams, levers and linkages]
- [for example, series circuits incorporating switches, bulbs, buzzers and motors]

Learning Progression	
Lower Key Stage 2	

Designing Progression Statement Working Towards Working At Working Beyond

Understanding contexts, users	I can work within a range of	I can work confidently within a	I can develop my own design
and purposes	contexts, such as the	range of contexts, such as the	criteria and use these to inform
	home, school, leisure, culture,	home, school, leisure, culture,	my ideas.
	enterprise, industry and the	enterprise, industry and the	,
	wider environment.	wider environment.	
	I can begin to describe the	I can describe the purpose of	
	purpose of my products.	my products.	
		I can indicate the design	
		features of my products that	
		will appeal to intended users.	
		will appear to intended users.	
		I can explain how particular	
		parts of my products work.	
		I can gather information about	
		the needs and wants of	
		particular individuals and	
		groups.	
Generating, developing,	I can share and clarify ideas	I can share and clarify ideas	I can make design decisions that
modelling and communicating	through discussion.	through discussion.	take account of the availability of
ideas	I can use annotated sketches,	I can model my ideas using	resources.
	cross-sectional drawings and	prototypes and pattern pieces.	
	exploded diagrams to develop	prototypes and pattern pieces.	
	and communicate their ideas.	I can use annotated sketches,	
	and seminations and includes	cross-sectional drawings and	
		exploded diagrams to develop	
		and communicate my ideas.	
		I can use computer-aided	
		design to develop and	
		communicate my ideas.	
		Lean ganarata realistic ida-	
		I can generate realistic ideas,	

			focusing on the needs of the user.	
Making	Progression Statement	Working Towards	Working At	Working Beyond
	Planning	I can select tools and	I can select tools and	I can explain my choice of tools
		equipment suitable for the	equipment suitable for the	and equipment in relation to the
		task.	task.	skills and techniques I will be
		Lasa salast mastarials and		using.
		I can select materials and components suitable for the	I can begin to explain my choice of tools and equipment in	I can explain my choice of
		task.	relation to the skills and	materials and components
		task.	techniques I will be using.	according to functional
			teeningues i wiii be using.	properties and aesthetic
			I can select materials and	qualities.
			components suitable for the	
			task.	I can confidently order the main
				stages of making.
			I can begin to explain my choice	
			of materials and components	
			according to functional properties and aesthetic	
			qualities.	
			quanties.	
			I can order the main stages of	
			making.	
	Practical skills and techniques	I can follow procedures for	I can follow procedures for	I can correctly follow procedures
		safety and hygiene.	safety and hygiene.	for safety and hygiene.
		Lagrania and	Lasa vas a viidau manas af	
		I can use materials and components from KS1.	I can use a wider range of materials and components than	I can confidently use a wider range of materials and
		components nom kst.	KS1, including construction	components than KS1, including
		I can measure, mark out, cut	materials and kits, textiles,	construction materials and kits,
		and shape materials and	food ingredients, mechanical	textiles, food ingredients,
		components.	components and electrical	mechanical components and
			components.	electrical components.
		I can assemble, join and		
		combine materials and	I can measure, mark out, cut	I can measure, mark out, cut and

		components.	and shape materials and	shape materials and components
		Language Buishing	components with	with accuracy.
		I can apply a finishing technique.	some accuracy.	I can assemble, join and combine
		technique.	I can assemble, join and	materials and components with
			combine materials and	accuracy.
			components with some	accuracy.
			accuracy.	I can apply a range of finishing
			accuracy.	techniques, including those from
			I can apply a range of finishing	art and design, with some
			techniques.	accuracy.
Evaluating	Progression Statement	Working Towards	Working At	Working Beyond
	Own ideas and products	I can identify the strengths and	I can identify the strengths and	I can consider the views of
		areas for development in my	areas for development in my	others, including intended users,
		products.	ideas and products.	to improve my work.
			I can consider the views of	I can refer to my design criteria
			others to improve my work.	as I design and make to inform
				the marking process.
			I can refer to my design criteria	
			as I design and make.	I can use my design criteria to
			Language moved a sign anitonia to	evaluate my completed products
			I can use my design criteria to	considering the intended user.
			evaluate my completed products.	
	Existing products	I can investigate and analyse:	I can investigate and analyse:	I can investigate and analyse:
	Existing products	real investigate and analyse.	real investigate and analyse.	real livestigate and analyse.
		 How well products have 	 How well products have 	 How well products have
		been designed	been designed	been designed for the
		 How well products have 	 How well products have 	intended user
		been made	been made	 How well products have
		 Why materials have been 	 Why materials have been 	been made, based on
		chosen	chosen	research.
		 How well products work 	What methods of	Why materials have been
		 How well products achieve 	construction have been	chosen explaining their
		their purposes	used	reasoning.

		 When products were designed and made Whether products can be recycled or reused. 	 How well products work How well products achieve their purposes How well products meet user needs and wants Who designed and made the products Where products were designed and made When products were designed and made Whether products can be recycled or reused. 	 What methods of construction have been used considering if other methods of construction would have been better How well products work How well products achieve their purposes for the intended user How well products meet user needs and wants Who designed and made the products Where products were designed and made and whether this has impacted on the product outcome When products were designed and made and whether this has impacted on the product outcome Whether products can be recycled or reused and its impact on the environment.
	Key events and individuals	I begin to know of inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products.	I know inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products.	I confidently talk about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products.
Technical Knowledge	Progression Statement	Working Towards	Working At	Working Beyond
	Making things work	I can investigate how materials can be combined and mixed to create more useful characteristics. I can investigate how materials	I can use learning from science to help design and make products that work. I can use learning from mathematics to help design	I can investigate and explain how mechanical and electrical systems have an input, process and output. I can program a computer to

		have both functional properties	and make products that work.	control my products.
		and aesthetic qualities.		
			I can use correct technical	
			vocabulary for the projects I am	
			undertaking.	
			I can investigate how	
			mechanical systems such as	
			levers and linkages or	
			9	
			pneumatic systems create	
			movement.	
			I can investigate how simple	
			electrical circuits and	
			components can be used to	
			create functional products	
			•	
			I can investigate how to make	
			strong, stiff shell structures.	
			I can demonstrate that a single	
			fabric shape can be used to	
			make a 3D textiles product	
			Language and the state of	
			I can explain that food	
			ingredients can be fresh, pre-	
Cooking and Nutrition	Progression Statement	Working Towards	cooked and processed. Working At	Working Beyond
COOKING and NUCLICION	Where food comes from	I can show that a recipe can be	I can show that a recipe can be	I can show that a recipe can be
	where jood comes jrom	adapted a by adding or	adapted a by adding or	adapted a by adding or
		substituting one or more	substituting one	substituting one
		ingredients.	or more ingredients.	or more ingredients to change
		mgreaterits.	or more ingredients.	the flavour to the product.
		I can explain that food is	I can explain that food is grown	the havour to the product.
		grown, reared and caught in	(such as tomatoes, wheat and	I can explain that food is grown
		the UK, Europe and the wider	potatoes), reared (such as pigs,	(such as tomatoes, wheat and
		the on, Europe and the wider	potatoes), realed (such as pigs,	(Such as tomatoes, wheat and

	world.	chickens and cattle) and caught	potatoes), reared (such as pigs,
	world.	, , ,	
		(such as fish) in the UK, Europe	chickens and cattle) and caught
		and the wider world.	(such as fish) in the UK, Europe
			and the wider world, reasoning
			why food can be sourced in
			different countries.
Food preparation, cooking and	I am beginning to know how to	I can prepare and cook a	I can confidently prepare and
nutrition	prepare and cook a savoury	variety of predominantly	cook a variety of predominantly
	dish safely and hygienically	savoury dishes safely and	savoury dishes safely and
	including, where appropriate,	hygienically including, where	hygienically including, where
	the use of a heat source.	appropriate, the use of a heat	appropriate, the use of a heat
		source.	source.
	I am starting to know		
	techniques such as peeling,	I can use a range of techniques	I can use a range of techniques
	chopping, slicing, grating,	such as peeling, chopping,	such as peeling, chopping,
	mixing, spreading, kneading	slicing, grating, mixing,	slicing, grating, mixing,
	and baking.	spreading, kneading and	spreading, kneading and baking.
	_	baking.	
	I am aware that a healthy diet	_	I can explain that a healthy diet
	is made up from a variety and	I know that a healthy diet is	is made up from a variety and
	balance of different food and	made up from a variety and	balance of different food and
	drink, as depicted in the eat-	balance of different food and	drink, as depicted in the eat-well
	well plate.	drink, as depicted in the eat-	plate.
	•	well plate.	'
	I know that to be active and	·	I can explain that to be active
	healthy food and drink are	I can explain that to be active	and healthy food and drink are
	needed to provide energy for	and healthy food and drink are	needed to provide energy for the
	the body.	needed to provide energy for	body giving explanations about
		the body.	why.
	Learning Progression	1	
	Upper Key Stage 2		
Designing Progression Statement	Working Towards	Working At	Working Beyond
Understanding contexts, users	I can describe the purpose of	I can work confidently within a	I can work confidently within a
and purposes	my products.	different context, such as the	range of contexts, such as the
		home, school, leisure, culture,	home, school, leisure, culture,
	I can indicate the design	enterprise, industry and the	enterprise, industry and the

	features of my products that	wider environment.	wider environment.
	will appeal to intended users.		
		I can describe the purpose of	I can describe the purpose of my
	I can develop a simple design	my products.	products to an audience using
	specification to guide my		persuasive techniques.
	thinking.	I can consider the design	
		features of my products that	I can indicate the design features
		will appeal to intended users.	of my products that will appeal to intended users.
		I can think about how	
		particular parts of my products	I can explain how particular parts
		work.	of my products work.
		I can carry out research, using	I can carry out in-depth research,
		surveys, interviews,	using surveys, interviews,
		questionnaires and web-based	questionnaires and web-based
		resources.	resources.
		I can consider the needs,	I can identify and explain my
		wants, preferences and values	needs, wants, preferences and
		of	values of particular individuals
		particular individuals and	and groups.
		groups	
		Landania a simula desim	I can develop a design
		I can develop a simple design	specification to guide my
		specification to guide their thinking.	thinking.
Generating, developing,	I can share through discussion.	I can share and clarify ideas	I can share and clarify ideas
modelling and communicating	rean share through discussion.	through discussion.	through discussion, taking on
ideas	I can begin to model my ideas	an eagh alleastion.	board the views of others.
	using prototypes and pattern	I can model my ideas using	
	pieces.	prototypes and pattern pieces.	I can model my ideas using
	•	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	prototypes and pattern pieces,
	I can begin to use annotated	I can use annotated sketches,	exploring many different
	sketches, cross-sectional	cross-sectional drawings and	approaches.
	drawings and exploded	exploded diagrams to develop	

		diagrams to develop and communicate my ideas. I can generate ideas for products.	and communicate my ideas. I can use computer-aided design to develop and communicate my ideas. I can generate innovative ideas. I can make design decisions, taking account of constraints such as time and resources.	I can confidently use annotated sketches, cross-sectional drawings and exploded diagrams to develop and communicate my ideas. I can confidently use computeraided design to develop and communicate my ideas. I can generate innovative ideas, drawing on research.
Making	Progression Statement	Working Towards	Working At	I can make design decisions, taking account of constraints such as time, resources and cost. Working Beyond
	Planning	I can select tools and equipment suitable for the task. I can select materials and	I can select tools and equipment suitable for the task. I can explain my choice of tools	I can explain my choice of tools and equipment in relation to the skills and techniques I will be using.
		components suitable for the task. I can explain my choice of materials and components.	and equipment in relation to the skills and techniques I will be using. I can select materials and	I can confidently select materials and components suitable for the task, naming the specific name of the materials and components.
		I can produce appropriate lists of tools, equipment and materials that I need.	components suitable for the task. I can explain my choice of materials and components according to functional	I can explain my choice of materials and components according to functional properties and aesthetic qualities.
			properties. I can request appropriate tools,	I can produce appropriate lists of tools, equipment and materials

		equipment and materials that I	that I need.
		need.	
			I can formulate step-by-step
		I can formulate step-by-step	plans as a guide to making for
		plans as a guide to making.	others to confidently follow.
Practical skills and techniques	I know the procedures for	I can follow procedures for	I can follow procedures for
	safety and hygiene.	safety and hygiene.	safety and hygiene and also support others to do so.
	I can use a wider range of	I can use a wider range of	
	materials and components than	materials and components than	I can accurately use a wider
	KS1.	KS1, including construction	range of materials and
		materials and kits, textiles,	components than KS1, including
	I can measure, mark out, cut	food ingredients, mechanical	construction materials and kits,
	and shape materials and	components and electrical	textiles, food ingredients,
	components.	components.	mechanical components and
	Language and the same		electrical components.
	I can assemble, join and combine materials and	I can accurately measure, mark	
		out, cut and shape materials and components.	I can accurately measure, mark out, cut and shape materials and
	components.	and components.	components to fine
	I can apply a range of finishing	I can accurately assemble, join	measurements.
	techniques, including those	and combine materials and	measurements.
	from art and design.	components.	I can accurately assemble, join
	nom are and acsign.	components.	and combine materials and
	I am beginning to use	I can accurately apply a range	components to fine
	techniques that involve a	of finishing techniques,	measurements.
	number of steps.	including those from art and	
	·	design.	I can accurately apply a range of
			finishing techniques suitable for
		I can use techniques that	the product, including those
		involve a number of steps.	from art and design.
		I can demonstrate	I can confidently use techniques
		resourcefulness when tackling practical problems.	that involve a number of steps.
			I can demonstrate

				resourcefulness when tackling practical problems and show support to others.
0		I can identify the strengths and areas for development in my ideas.	I can identify the strengths and areas for development in my ideas and products.	I can identify the strengths and areas for development in my ideas and products and use this to refine my products.
		I can consider the views of others, including intended users, to improve my work.	I can consider the views of others, including intended users, to improve my work.	I can consider the views of others, including intended users,
		I can begin to evaluate my ideas and products against my	I can begin to critically evaluate the quality of the design,	to improve my work and use this to refine my products.
		original design specification.	manufacture and fitness for purpose of my products as I design and make.	I can critically evaluate the quality of the design, manufacture and fitness for purpose of my products as I
			I can evaluate my ideas and products against my original design specification.	design and make. I can evaluate my ideas and
			5	products against my original design specification, identifying successes and next steps.
Ex	xisting products	I can investigate and analyse:	I can investigate and analyse:	I can investigate and analyse:
		 How well products have been designed How well products have been made Why materials have been chosen What methods of construction have been used How well products work How well products achieve 	 How well products have been designed How well products have been made Why materials have been chosen What methods of construction have been used How well products work How well products achieve 	 How sustainable the materials in products are What impact products have beyond their intended purpose.

		their purposes How well products meet user needs and wants.	their purposes How well products meet user needs and wants How much products cost to make How innovative products are	
			 How sustainable the materials in products are What impact products have beyond their intended purpose. 	
	Key events and individuals	I can talk about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products.	I can investigate different inventors, designers, engineers, chefs and manufacturers who have developed groundbreaking products.	I can independently explore inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products.
Technical Knowledge	Progression Statement	Working Towards	Working At	Working Beyond
	Making products work	I can use learning from science to help design and make products that work. I can use learning from	I know that mechanical and electrical systems have an input, process and output. I can use the correct technical	I can program a computer to monitor changes in the environment and control my products.
		mathematics to help design and make products that work.	vocabulary for the projects I am undertaking.	I can reinforce and strengthen a 3D framework.
		I know that materials have both functional properties and aesthetic qualities.	I know how more complex electrical circuits and components can be used to create functional products.	
		I know that materials can be combined and mixed to create more useful characteristics.	I know that a 3D textiles product can be made from a combination of fabric shapes.	
		I know how mechanical systems such as cams or pulleys	I know that a recipe can be	

		or gears create movement.	adapted by adding or substituting one or more ingredients.	
Cooking and Nutrition	Progression Statement	Working Towards	Working At	Working Beyond
	Where food comes from	I know that a recipe can be adapted a by adding or substituting one or more ingredients.	I know that seasons may affect the food available. I know how food is processed into ingredients that can be	I can explain that seasons may affect the food available, recognise what foods are available in different seasons.
		I know that food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world.	eaten.	I know how food is processed into ingredients that can be eaten or used in cooking.
	Food preparation, cooking and nutrition	I can prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source. I can use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.	I know that recipes can be adapted to change the appearance, taste, texture and aroma. I know that different food and drink contain different substances.	I know that recipes can be adapted to change the appearance, taste, texture and aroma, put this into practice in my own cooking. I know that different food and drinks contain different substances – nutrients, water and fibre – that are needed for health.