		Year 1				
		Progression in Design Technolo				
	Autumn 1	Autumn 2	Spring	Summer		
Торіс	Structures	Mechanisms	Textiles	Food Technology		
	Penguins with plastic bottles	Book Nibbling Monster/Flanimal	Designing and Making Kites	Creating a Fruit Kebab		
Prior knowledge	Know that ideas that can be imagined can also be brought to life, the children have access to modelling materials, building resources, construction blocks and tools. Able to enhance play with things that they have made in the modelling area, puppets, cameras, kites Practise bringing stories to life using enhancements that they have made, e.g. aliens love underpants, we are going on a bear hunt. Know that they can plan a creation before they go ahead and make, using plan, do, review method.					
Prior skills	Most children will have:	Most children will have:	Most children will have:	Most children will have:		
	Used various construction materials. Constructed with a purpose in mind, using a variety of resources. Begun to construct, stacking blocks vertically and horizontally, making enclosures and creating spaces.	Used simple tools and techniques competently and appropriately. Joined construction pieces together to build and balance. Selected tools and techniques needed to shape, assemble and join materials they were using.	Used and explored a variety of materials, tools and techniques. Selected appropriate resources and adapted work where necessary. Realised tools can be used for a purpose. Represented their own ideas, thoughts and feelings through design and technology.	Experienced using or seeing measuring tools. Handled food and talked about food hygiene.		
Vocabulary	Draw, plan, evaluate, model, structure, cut, make, materials, design	Design, plan, evaluate, cut, mechanism, lever, slide, join	Design, plan, evaluate, strong, weak, material, cut, suitable, product, equipment	evaluate, ingredients, fruit, vegetable, cut		
Statutory	Design	1	equipment	1		
requirements	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 <b>Make</b> 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 <b>Evaluate</b> Explore and evaluate a range of existing products Evaluate their ideas and products against design criteria <b>Technical knowledge</b> Build structures, exploring how they can be made stronger, stiffer and more stable					
Skills covered	Design	e, levers, sliders, wheels and axles], in their Design	Design	Make		
UNITS COVERED	Work confidently within a range of context, such as imaginary, story based, home, school, gardens,	State what products they are designing and making. Use simple design criteria to help develop their ideas	Describe the purpose of the product Say how the product will work Say how they will make the product suitable for the intended uses	- Plan by suggesting what to do next.		

[	here and least some with industry in	Compares own ideas for design by	Lize simple design enitorie to bein	Colort from a nonce of tools and
	playground, local community, industry	Generate own ideas for design by	Use simple design criteria to help	- Select from a range of tools and
	and the wider environment.	drawing on own experiences or from	develop their ideas	equipment explaining their
	Use simple design criteria to help	reading	Model ideas by exploring materials,	choices.
	develop their ideas.	Develop and share ideas by talking and	components and construction kits and	-Follow procedures for safety and
	Generate own ideas for design by	drawing	making templates and mock-ups	hygiene.
	drawing on own experiences or from	Model ideas by exploring materials,		
	reading.	components and making mock-ups	Make	Cooking and Nutrition
	Develop and share ideas by talking and		Plan by suggesting what to do next	- Know that all food comes from
	drawing.	Make	Select from a range of materials and	plants or animals.
		Select from a range of tools and	components according to their	- Group familiar food products e.g.
	Make	equipment explaining their choices	characteristics	fruit and vegetables.
	Plan by suggesting what to do next.	Follow procedures for safety	Use a range of components, including	- Know that everyone should eat
	Select from a range of tools and	Use a range of components, including	construction materials	at least five portions of fruit and
	equipment explaining their choices.	construction materials	Mark out, cut out and shape materials	vegetables every day.
	Follow procedures for safety.	Assemble, join and combine materials	Assemble, join and combine materials	- Prepare simple dishes safely and
	Use a range of components, including	Use simple fixing materials e.g.	Use simple fixing materials e.g.	hygienically, without using a heat
	construction materials.	temporary - paper clips tape and	temporary - paper clips tape and	source.
	Mark out, cut out and shape materials.	permanent - glue, staples	permanent - glue, staples	
	Use simple fixing materials e.g.	Use finishing techniques, including those	Use finishing techniques, including	
	temporary - paper clips tape and	from art and design	those from art and design	
	permanent - glue, staples.			
		Evaluate	Evaluate	
	Evaluate	Talk about their design ideas and what	Make simple judgements about their	
	Talk about their design ideas and what	they are making	products and ideas against design	
	they are making.	Make simple judgements about their	criteria	
	Make simple judgements about their	products and ideas against design	Suggest how their products could be	
	products and ideas against design	criteria	improved	
	criteria.	Suggest how their products could be		
		improved	Technical Knowledge	
	Technical Knowledge		Understand how freestanding	
	Understand how freestanding	Technical Knowledge	structures can be made stronger,	
	structures can be made stronger,	Understand about the movement of	stiffer and more stable	
	stiffer and more stable.	simple mechanisms including levers,		
		sliders (Year 1)		
Key performance	- I can use words and pictures to	- I can think of some ideas of my	- I can choose the right	- I can cut food safely.
indicators	plan.	own when designing.	materials to make my product.	- I can think of interesting
	- I can design a product for	<ul> <li>I can use levers and slides in my</li> </ul>	- I can say how to make my kite	ways to present my food.
	myself following design criteria.	work.	stronger.	- I can name 3 healthy
	<ul> <li>I can explain what I have made</li> </ul>	<ul> <li>I can select tools and equipment</li> </ul>	- I can talk about existing	foods.
	suggesting one positive thing	to cut, shape, join and finish.	products and say what is good	10003.
	and one improvement.	io cui, snape, join una finish.	and not so good about them.	
	unu one improvement.		and not so good about them.	

	Year 2 Progression in Design Technology Grid				
Торіс	Autumn HEROES AND VILLAINS Mechanisms Build a Trap for a Giant	Spring BE BRAVE! Textiles Puppets	Summer OH, THE PLACES YOU CAN GO! Food Technology Bread		
Prior knowledge	Understanding of the design process and following a design criteria. Knowledge of materials and their properties. Knowledge of the evaluation process.	Some pupils will have had experience of textiles through after school clubs and personal experience All pupils will have handled puppets during their time in reception. Pupils will have handled a range of materials in year 1 when kite making.	Pupils may have personal experience of baking and cooking at home. Pupils will have discussed food hygiene in reception and year 1 during food activities (making bread, gingerbread decorating etc).		
Prior skills	Select from a range of materials and components according to their characteristics. Use a range of components, including construction materials. Mark out, cut out and shape materials. Assemble, join and combine materials. Use simple fixing materials e.g. temporary - paper clips tape and permanent - glue, staples. Evaluate a product.	Select from a range of materials and components according to their characteristics Use a range of components, including construction materials Mark out, cut out and shape materials Assemble, join and combine materials Use simple fixing materials e.g. temporary - paper clips tape and permanent - glue, staples Use finishing techniques, including those from art and design	Know that all food comes from plants or animals. Group familiar food products e.g. fruit and vegetables. Know that everyone should eat at least five portions of fruit and vegetables every day. Prepare simple dishes safely and hygienically, without using a heat source. Follow procedures for safety and hygiene.		
Vocabulary	Axle, winding mechanism, stable, handle, turn	Template, fabric, cutting out, sewing, needle, gluing, puppet, stitch, thread,	Pinch, teaspoon, well, dough, knead, floured surface, topping		
Statutory requirements	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 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, Evaluate their ideas and products against design criteria Explore and use mechanisms such as wheels and axles in their products.	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 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 textiles Evaluate their ideas and products against design criteria	Generate, develop, model and communicate their ideas through talking, drawing, information and communication technology Select from and use a range of tools and equipment to perform practical tasks. Select from and use a wide range of ingredients Evaluate their ideas and products against design criteria		

Skills covered	Design	Design	Cooking and nutrition
Oking Covered	-Work confidently within a range of context, such	-Work confidently within a range of context, such as	-
	as imaginary and story based,	imaginary, story based,	-Know that food has to be farmed, grown or caught
	-Describe the purpose of the trap	-Say who the product is for	-Name and sort foods into the five groups of the
	-Say how the trap will work	-Describe the purpose of the product	'eat well' plate
	-Say how they will make the trap suitable for the	-Use simple design criteria to help develop their	-Understand where food comes from
	intended uses	ideas	-Use appropriate equipment to weigh and measure
	-Use simple design criteria to help develop their	-Generate ideas for design by drawing on own	ingredients
	ideas	experiences of puppets	-Prepare simple dishes safely and hygienically,
	-Generate own ideas for design by drawing on own	-Use knowledge of existing products to help come up	
	experiences or from reading	with ideas	without using a heat source
	-Use knowledge of existing products to help come	-Develop and share ideas by talking and drawing	-Use techniques such as cutting, peeling and
	up with ideas	-Use ICT, where appropriate, to develop and	grating with support
		communicate their ideas	
	Make		Technical knowledge
	-select from a range of tools and equipment	Make	-Understand that food ingredients should be
	explaining their choices	-plan by suggesting what to do next	-
	-select from a range of materials	-select from a range of tools and equipment	combined according to their sensory
	-follow procedures for safety	explaining their choices	characteristics
	-measure, mark out, cut out and shape materials	-select from a range of materials	-Know the correct technical vocabulary for the
	and components	- follow procedures for safety and hygiene	projects they are undertaking
	-assemble, join and combine materials and	-use and make own templates	
	components	-use a range of components, including textiles,	
	-use simple fixing materials e.g. Temporary - paper clips tape and permanent - glue, staples	-measure, mark out, cut out and shape materials and components	
	-use finishing techniques, including those from art	-assemble, join and combine materials and	
	and design	components	
		-use finishing techniques, including those from art	
	Evaluate	and design	
	-talk about their design ideas and what they are		
	making	Evaluate	
	-make simple judgements about their trap and	-talk about their design ideas and what they are	
	ideas against design criteria	making	
	-suggest how their trap could be improved	-make simple judgements about their puppet and	
		ideas against design criteria	
	Technical knowledge	-suggest how their puppet could be improved	
	-understand about the movement of simple	Evaluate existing products	
	mechanisms including wheels and axles (year 2)	-What products are	
	-understand how freestanding structures can be	-Who the products are for	
	made stronger, stiffer and more stable	-What the products are for	
		-How the products work	

		-Where the products might be used -What materials the products are made from -What they like and dislike about the products	
		Technical knowledge -understand that a 3-d textile product can be assembled from two identical fabric shapes	
		-understand about the simple working characteristics of materials	
Key performance	I can make and use a simple winding mechanism	I can use scissors to cut straight lines, corners and	I understand the importance of hygiene when
indicators	that has an axle that turns and has a handle. I can use scissors safely to cut paper and thin card.	curves in felt, cotton, etc. I can use a template. I am beginning to use basic sewing techniques.	handling food - washing hands, hair tied back, wearing an apron. I can use scales to measure materials (with help)
	I am beginning to understand how wheels and axles work. I can use reclaimed materials and construction		I can recognise the necessity of following an order in a recipe.
	skills.		

	Year 3 Progression in Design Technology Grid				
Торіс	Autumn WONDERFUL WORLDS Structures Snow scene in a box	Spring STONE AGE Food technology Food from the British Isles	Summer ANCIENT EGYPT Textiles Giraffe bag		
Prior knowledge	Have experience from KS1 of looking at materials for purpose. Have an awareness about the way a product is presented as well as how well it is built.	Know that food has to be farmed, grown or caught Name and sort foods into the five groups of the 'eat well' plate Understand where food comes from	Most children will have some experience of textiles from Y1 Kites unit.		
Prior skills	Select from a range of tools and equipment explaining their choices. Follow procedures for safety. Use a range of components, including construction materials. Mark out, cut out and shape materials. Use simple fixing materials e.g. temporary - paper clips tape and permanent - glue, staples.	Use appropriate equipment to weigh and measure ingredients Prepare simple dishes safely and hygienically, without using a heat source Use techniques such as cutting, peeling and grating with support	Select from a range of materials Follow procedures for safety and hygiene Use and make own templates Use a range of components, including textiles, Measure, mark out, cut out and shape materials and components Assemble, join and combine materials and components Use finishing techniques, including those from art and design		
Vocabulary	design, criteria, brief, innovative, aesthetics, appealing, joining, shaping, cutting, finishing, evaluate	balanced diet, fruit, vegetables, dairy, carbohydrates, proteins, vitamins, minerals, rearing, processing	prototypes, pattern, textile, properties, aesthetic, appealing, improvement		
Statutory requirements	-generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design -select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately -evaluate their ideas and products against their own design criteria and consider the views of others to improve their work	<ul> <li>-understand and apply the principles of a healthy and varied diet</li> <li>-prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques</li> <li>-understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed.</li> </ul>	-generate, develop, model and communicate their ideas through discussion, annotated sketches, cross- sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design -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 -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		
Skills covered	Design	Cooking and Nutrition	improve their work Design		

	Explain how particular parts of their products work. Share and clarify ideas through discussion. <b>Make</b> Select tools and equipment suitable for the task Explain choices in relation to skills and techniques. Order main stages of making (English - instructions). Follow procedures for safety Measure, mark out, cut and shape materials with some accuracy. <b>Evaluate</b> Identify the strengths and weaknesses of their ideas and products Consider the views of others, including intended users, to improve their work <b>Technical knowledge</b> Know that materials have both functional properties and aesthetic qualities	Know that food is grown, reared and caught in the UK, Europe and the wider world. Know that a healthy diet is made up from a variety of different food and drink as depicted in the healthy plate. Know that to be active and healthy, food is needed to provide energy for the body. Measure and weigh ingredients appropriately using grams. Follow a recipe to prepare a simple dish with or without a heat source. Use techniques such as chopping, peeling and grating with growing independence. <b>Technical knowledge</b> Know that food ingredients can be fresh, pre-cooked and processed	Indicate the design features of their products that will appeal to intended users Gather information about the needs and wants of individuals and groups Develop their own design criteria and use these to inform their ideas Make design decisions that take account of the availability of resources <b>Make</b> Select materials and components suitable for the task Explain their choice of materials and components according to functional properties and aesthetic qualities Apply a range of finishing techniques, include those from art and design, with some accuracy <b>Evaluate</b> Consider the views of others, including intended users, to improve their work Use their design criteria to evaluate their completed products <b>Technical knowledge</b> Know that a single fabric shape can be used to make a 3D textiles product
Topic links		*History link - compare food from the UK now to food in Britain at the time of the Stone Age *Literacy link - topic writing - instructions for baking	
Identify great DT figures		British chef - Jamie Oliver Campaigning for healthy foods in school and using fresh, local produce	Local textile designer – Stephanie Cockburn Specialising in felting
Key performance indicators	I can explain, using DT vocabulary, my design and how it works.	I can give an example of a food that is grown, a food that is caught and a food that is reared in the UK.	I can evidence how I developed my own design criteria after researching the needs of the intended user.
	I can demonstrate the use of safe and effective techniques for measuring, marking out, cutting and shaping materials.	I can recall the five areas on the healthy plate. I can measure and weigh ingredients in grams when following a simple recipe.	I can show I am beginning to select materials for their function as well as considering the way they look.
	I can show my product has been evaluated by discussing the strengths and weaknesses.		

I can show safe use of utensils when preparing food (e.g. peeling, grating or chopping).	I can use my own design criteria to evaluate my product.

	Year 4 Progression in Design Technology Grid					
	Autumn	Spring	Summer			
Торіс	ROMANS	ANCIENT EGYPT	RAINFORESTS			
	Food technology	Mechanisms Chaduf water device	Structures			
<u> </u>	Roman Bread	Shaduf water device	Rainforest musical instrument			
Prior knowledge	Know that food is grown, reared and caught in the	Awareness of leavers, sliders, wheels and axles from KS1.	Know that materials have both functional properties			
	UK, Europe and the wider world.		and aesthetic qualities.			
	Know that a healthy diet is made up from a variety	Awareness of components and joining methods.	Understand how freestanding structures can be			
	of different food and drink as depicted in the		made stronger, stiffer and more stable.			
	healthy plate. Know that to be active and healthy, food is needed					
	•					
Prior skills	to provide energy for the body. Measure and weigh ingredients appropriately using	Select from a range of tools and equipment	Select tools and equipment suitable for the task			
FINDE SKIIIS	grams.	explaining their choices	Explain choices in relation to skills and techniques.			
	Follow a recipe to prepare a simple dish with or	Follow procedures for safety	Order main stages of making (English - instructions).			
	without a heat source.	Measure, mark out, cut out and shape materials	Follow procedures for safety			
	Use techniques such as chopping, peeling and	and components	Measure, mark out, cut and shape materials with			
	grating with growing independence.	Assemble, join and combine materials and	some accuracy.			
		components	Use finishing techniques, including those from art			
		Use simple fixing materials e.g. Temporary - paper	and design			
		clips tape and permanent - glue, staples				
Vocabulary	Ingredients, recipe, utensils, units of measure,	Shaduf, irrigation device, lifting, lever, bucket,	Instrument, materials, aesthetics, functional			
	grams, scales, roll, shape, knead, dough, savoury,	weight, system, pulley, stages, construction,	properties, criteria, cross-sectional diagrams,			
	season, source, grown, reared, caught, processed	assemble, join, combine	research, tssue paper, glue, strengthen, stiffen,			
			Cardboard, pins, rice, foil			
Statutory	understand and apply the principles of a healthy	use research and develop design criteria to inform	generate, develop, model and communicate their			
requirements	and varied diet	the design of innovative (historical), functional,	ideas through discussion, annotated sketches and			
	prepare and cook a variety of predominantly	appealing products that are fit for purpose, aimed	cross-sectional drawings			
	savoury dishes using a range of cooking techniques	at particular individuals or groups	select from and use a wider range of materials and			
	understand seasonality, and know where and how a	generate, develop, model and communicate their	components, including construction materials,			
	variety of ingredients are grown, reared, caught	ideas through discussion and annotated sketches	textiles and ingredients, according to their			
	and processed.	select from and use a wider range of materials and	functional properties and aesthetic qualities			
		components, including construction materials	evaluate their ideas and products against their own			
		according to their functional properties and	design criteria and consider the views of others to			
		aesthetic qualities	improve their work			
		understand how key events and individuals in	apply their understanding of how to strengthen,			
		design and technology have helped shape the world	stiffen and reinforce more complex structures			

		understand and use mechanical systems in their products	
Skills covered	Cooking and Nutrition -Know that food is grown, reared and caught in the UK, Europe and the wider world -Know that a healthy diet is made up from a variety of different food and drink as depicted in the healthy plate Give examples of foods that give the body types of energy and understand the effect of these of the body -Apply appropriate shaping techniques to food -Measure ingredients using scales -Prepare ingredients hygienically and using the appropriate utensils by following a recipe -Follow a recipe to prepare a dish that uses a read source Design -Gather information about the needs and wants of individuals and groups Evaluate - Identify the strengths and weaknesses of their ideas and products -Consider the views of others, including intended users, to improve their work	Design         - Describe the purpose of their products         -Explain how particular parts of their products         work         - Share and clarify ideas through discussion         - Use annotated sketches to develop and         communicate ideas         Make         - Select tools and equipment suitable for the task         -Explain their choice of tools and equipment in         relation to the skills and techniques they will be         using         -Select materials and components suitable for the         task         -Explain their choice of materials and components         according to functional properties and aesthetic         qualities         -Order the main stages of making         -Assemble, join and combine materials and         components with some accuracy         Evaluate         Refer back to their design criteria as they design         and make         -Use their design criteria to evaluate their         completed products         -Identify the strengths and weaknesses of their         ideas and products         Technical Knowledge         - Understand how levers and linkages or pneumatic         systems create movement	<ul> <li>Design <ul> <li>Develop their own design criteria and use these to inform their ideas</li> <li>Research designs</li> <li>Generate realistic ideas, focusing on the needs of the user</li> <li>Make design decisions that take account of the availability of resources</li> </ul> </li> <li>Make <ul> <li>Select tools and equipment suitable for the task</li> <li>Apply a range of finishing techniques, include those from art and design, with some accuracy</li> </ul> </li> <li>Technical Knowledge <ul> <li>Know that materials have both functional properties and aesthetic qualities</li> <li>Know that materials can be combined and mixed to create more useful characteristics</li> </ul> </li> </ul>

Key performance	I can provide examples of food that give the body types of energy.	I can describe the purpose of my product and explain how certain parts work.	I can make design decisions that take account of the availability of resources.
indicators	I can apply appropriate shaping techniques to food	I can refer back to my design criteria as I design and make.	I can apply a range of finishing techniques to my product.
	I can prepare ingredients hygienically and using appropriate utensils by following a recipe	I can understand how lever systems create movement.	I can discuss the functional and aesthetic qualities.

	Year 5 Progression in Design Technology Grid				
	Autumn	Spring	Summer		
Торіс	WW2	ANGLO SAXONS AND VIKINGS	WHERE ON EARTH?		
	Structures	Structures	Food technology		
	A shelter for WW2 Refugees	Design and make a Viking boat/shields	World Foods		
Prior knowledge	Know that materials have both functional properties and aesthetic qualities Know that materials can be combined and mixed to create more useful characteristics	Know that materials have both functional properties and aesthetic qualities Know that materials can be combined and mixed to create more useful characteristics	Know that food is grown, reared and caught in the UK, Europe and the wider world Know that a healthy diet is made up from a variety of different food and drink as depicted in the healthy plate Give examples of foods that give the body types of energy and understand the effect of these of the body		
Prior skills	Develop their own design criteria and use these to inform their ideas Research designs Generate realistic ideas, focusing on the needs of the user Make design decisions that take account of the availability of resources Select tools and equipment suitable for the task Apply a range of finishing techniques, include those from art and design, with some accuracy	Develop their own design criteria and use these to inform their ideas Research designs Generate realistic ideas, focusing on the needs of the user Make design decisions that take account of the availability of resources Select tools and equipment suitable for the task Apply a range of finishing techniques, include those from art and design, with some accuracy	Apply appropriate shaping techniques to food Measure ingredients using scales Prepare ingredients hygienically and using the appropriate utensils by following a recipe Follow a recipe to prepare a dish that uses a read source		
Vocabulary	design, criteria, brief, innovative, aesthetics, appealing, joining, shaping, cutting, finishing, evaluate research, design, criteria, functional, purpose, shaping, reinforcement, structures	design, criteria, brief, innovative, aesthetics, appealing, joining, shaping, cutting, finishing, evaluate research, design, criteria, functional, purpose, shaping, reinforcement, float, buoyancy, streamline, stability	balanced diet, fruit, vegetables, dairy, carbohydrates, proteins, vitamins, minerals, rearing, processing, fair-trade, dice, simmer, boil, bake, preheat,		
Statutory	Generate, develop, model and communicate their	Use research and develop design criteria to inform	Understand and apply the principles of a healthy		
requirements	ideas through discussion, annotated sketches and	the design of an innovative, functional product that	and varied diet		
	cross-sectional diagrams	is fit for purpose, aimed at particular individuals or	Prepare and cook a variety of predominantly		
	Select from and use a wider range of tools and	groups	savoury dishes using a range of cooking techniques		
	equipment to perform practical tasks [for example,	Generate, develop, model and communicate their			
	cutting, shaping, joining and finishing], accurately.	ideas through discussion, annotated sketches,	Understand seasonality and know where and how a		
	Evaluate	cross-sectional diagrams, prototypes and pattern	variety of ingredients are grown, reared, caught		
		pieces.	and processed		

	Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work Technical knowledge Apply their understanding of how to strengthen, stiffen and reinforce more complex structures.	Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately and select from and use a wider range of materials and components, according to their functional properties and aesthetic qualities. Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work Technical knowledge Apply their understanding of how to strengthen,	
Skills covered	DesignDescribe the purpose of their productsDesignIndicate the design features of their productsthat will appeal to intended usersExplain how particular parts of their productsworkCarry out research, using interviews and web-based resourcesIdentify the needs, wants, preferences and valuesof individuals and groupsDevelop a simple design specification to guide theirthinkingShare and clarify ideas through discussionUse annotated sketches and cross-sectionaldrawings to develop and communicate ideasMakeSelect tools and equipment suitable for the taskEvaluateIdentify the strengths and weaknesses of theirideas and productsCompare and evaluate their ideas and products totheir original design specificationTechnical knowledgeKnow how to reinforce/strengthen a 3D framework	stiffen and reinforce more complex structures. Design Describe the purpose of their products Indicate the design features of their products that will appeal to intended users Explain how particular parts of their products work Carry out research, using web-based resources Identify the needs, wants, preferences and values of individuals and groups Develop a simple design specification to guide their thinking Share and clarify ideas through discussion Model ideas using prototypes and pattern pieces Use annotated sketches and cross-sectional drawings to develop and communicate ideas Make Evaluate Technical knowledge	Cooking and Nutrition Know that seasons may affect the food available Understand the importance of correct storage and handling of ingredients 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. Assemble or cook ingredients controlling the temperature of the oven or hob if cooking Measure accurately using different equipment Create recipes including ingredients, methods, cooking times and temperatures- Know that recipes can be adapted to change the appearance, taste, texture and aroma Technical knowledge Know that a recipe can be adapted a by adding or substituting one or more ingredients

Key performance	I can explain, using DT vocabulary, my design.	I can explain the qualities of the new materials I	I recognise foods grown in different countries
indicators	I can demonstrate the use of safe and effective techniques for measuring, marking out, cutting and shaping materials.	have used during this project. I can show I am beginning to select materials for their function as well as considering the way they	including those grown as part of fair-trade agreements. I can accurately measure and weigh ingredients in
	shaping materials.	look.	grams when following a recipe.
	I can show a range of ideas (using sketching and annotated design) to create a product that serves a purpose for the user.	I can use my own design criteria to evaluate my product.	I can show safe use of utensils when preparing food (e.g. peeling, grating or chopping).
	I can evidence how I developed my own design criteria after researching the needs if the intended user.	I can show my product has been evaluated by discussing the strengths and weaknesses.	I can adapt recipes to change appearance, taste, texture and aroma.
	I can explain how I made my structure strong and the techniques I used.		

Year 6 Progression in Design Technology Grid				
	Autumn	Spring	Summer	
Торіс	IS IT EVER RIGHT TO FIGHT? (WW2) Mechanisms Dragon's Den Project	HAVE WE ALWAYS LOOKED THIS WAY? Structures Mayan Masks	CAN WE CHANGE THE WORLD? Food Technology Recipe	
Prior knowledge	Understand how levers and linkages or pneumatic systems create movement Describe the purpose of their products Explain how particular parts of their products work Explain their choice of tools and equipment in relation to the skills and techniques they will be using Explain their choice of materials and components according to functional properties and aesthetic qualities	Describe the purpose of their products Develop a simple design specification to guide their thinking Explain how particular parts of their products work	Know that seasons may affect the food available Understand the importance of correct storage and handling of ingredients Understand seasonality and know where and how a variety of ingredients are grown, reared, caught and processed. Know that recipes can be adapted to change the appearance, taste, texture and aroma Know that a recipe can be adapted a by adding or substituting one or more ingredients	
Prior skills	Share and clarify ideas through discussion Use annotated sketches to develop and communicate ideas Select tools and equipment suitable for the task Select materials and components suitable for the task Order the main stages of making Assemble, join and combine materials and components with some accuracy Refer back to their design criteria as they design and make Use their design criteria to evaluate their completed products Identify the strengths and weaknesses of their ideas and products	Carry out research, using web-based resources Indicate the design features of their products that will appeal to intended users Identify the needs, wants, preferences and values of individuals and groups Share and clarify ideas through discussion Model ideas using prototypes and pattern pieces Use annotated sketches and cross-sectional drawings to develop and communicate ideas	Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques Assemble or cook ingredients controlling the temperature of the oven or hob if cooking Measure accurately using different equipment Create recipes including ingredients, methods, cooking times and temperatures	
Vocabulary	Exploded diagram Prototype Aesthetic Design criteria Reinforce	Mosaic Intricate Obsidian (volcanic rock used in making masks) Adorn Ceremony	Seasonal Savoury Reared Processed Substitution	
Statutory requirements	Use research and develop design criteria to inform the design of innovative, functional, appealing	Use research and develop design criteria to inform the design	Use research and develop design criteria to inform the design of innovative, functional, appealing	

	<ul> <li>products that are fit for purpose, aimed at particular individuals or groups</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</li> <li>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, according to their functional properties and aesthetic qualities 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 apply their understanding of how to strengthen, stiffen and reinforce more complex structures</li> </ul>	Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work Apply their understanding of how to strengthen, stiffen and reinforce more complex structures	products that are fit for purpose, aimed at particular individuals or groups Generate, develop, model and communicate their ideas through discussion, annotated sketches 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
Skills covered	Design Develop a simple design specification to guide their thinking Describe the purpose of their products Indicate the design features of their products that will appeal to intended users Share and clarify ideas through discussion Model using prototypes Use exploded diagrams Make Produce detailed lists of tools, equipment and materials Formulate step-by-step plans Accurately assemble, join and combine materials Evaluate How innovative products are Compare and evaluate their ideas and products to their original design specification Technical knowledge Understand how complex electrical circuits and components can be used to create functional products	Design Carry out research using web-based resources Describe the purpose of their products Use annotated sketches Make Produce a detailed list of equipment Accurately assemble, join and combine materials Accurately apply a range of finishing techniques Know how to reinforce/ strengthen a 3D framework Evaluate Analyse existing products Critically evaluate the quality of the design, manufacture and fitness for purpose of their products as they design and make Technical knowledge	Design Make decisions, taking account of constraints such as time, resources and cost Generate innovative ideas Produce a detailed list of equipment Accurately measure (using scales) Investigate how much products cost to make Know that a recipe can be adapted by adding or substituting ingredients Combine ingredients appropriately Know how to use a range of techniques Create and refine recipes

Key performance	I can develop a simple design to guide my thinking	I can carry out research using web-based resources	I can create a recipe for a cake and identify the
indicators	I can use an exploded diagram to clarify how my	to establish what a Mayan mask would have looked	equipment I will require
	product will be assembled	like.	I can accurately measure using scales
	I can create a list of tools, equipment and materials	I can create an annotated sketch for my own design	
		I can accurately assemble, join and combine	
		materials	