Rushey Mead

Autumn F1 - Preparing for Design and Technology (Nursery)

Curriculum Objectives		Voca	bulary			
 Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; Share their creations, explaining the process they 	Food	Something we eat to give us ener- gy and helps us grow	Build	To make something larger or stronger	_	Art—col Science-
have used;	tool	An object used to help us to do a job	Create	To make something		
	materials	What objects are made from e.g. wood, paper, bricks	fix	To repair something		
	evaluate	Deciding what is good about your	Problem-solve	Thinking of a way to over-		

Preparing for	Substantive Knowledge / Key Knowledge	
1. Selecting tools	Children to know how to hold scissors (thumb on top, finger below) and cut with increasing accuracy. Children will know how to hold scis- sors when moving around the classroom. Children will have access to a variety of tools in their classroom and be encouraged to self select when creating.	To understo poses
2.structures	Children will have materials both inside and outside of the classroom to build with. Children will use blocks and construction materials. Children to make imaginative 'small world' with blocks and construction kits including different buildings and a park.	To understo ferent tools
3. Range of materials	Children will learn to explore different materials freely in order to develop their own ideas about how to use them and what to make. Develop their own ideas and and then decide which materials to use to express them. To use large muscle movement to wave flags and streamers, paint and make marks.	To understa make it
4. Problem-solving	Children will learn to use the right resources to carry out their plan. Adults will encourage children to problem solve or experiment through the use of questioning or 'I wonder' thinking e.g. 'Which is better, the flat block or the curved block? Why do you think that?' 'Why do you think that?' 'Why do you think that falls down when we add?' 'If you make your tower on bean bag, why do you think it falls down? Where might be	To understa and can be u
5. Food and nutrition	better?'	To understa you to impro
	Children will learn about different foods and their names.	
6. Evaluation/dicussion	Return to and build on their previous learning, refining ideas and developing their ability to represent them.	To understo
7. Design	Children will be able to draw a simple picture or communicate what they plan to make.	To understo

			Themes		
Food	Children to name some s	imple food e.g. apple, carrot. E	Explore the idea of healthy and unhealthy food	ds	
Broadening horizons	Children will get the experience of putting theoretical learning into practise in the 'real world.'				
Innovation	Innovation Children will select tools and techniques needed to shape, assemble and join materials they are using				
Outcome Chanacter Traits Stickability W/OW/					

Outcome	Character Traits	Stickability	WOW	
Children will create basic structures, a snack and explore a variety of materials.	Ambitious Articulate Resilient Curious Kind Respectful	Recap key vocabulary and skills learnt	DT projects will be displayed on twitter account	





Links Across the Curriculum

our, texture -food, materials, everyday objects

Disciplinary Knowledge / Skills

stand that different tools can be used for different pur-

stand that different structures can be made using difols and materials

stand that it is important to plan a design before we

stand that different materials have different properties e used for different purposes

stand that asking questions and revisiting plans can help prove your design and generate new ideas

stand what some foods are called

stand that creations can always be improved

Diversity in the Curriculum

ate the Eiffel tower—French week

- nose day—making noses and red nose day biscuits ali—diva lamps
- ter— decorating Easter eggs and creating Easter cards





Autumn F2 - Preparing for Design and Technology (Reception)

Cu	rriculum Objectives		Vocabulary				
	re a variety of materials g with colour, design, te;		Food	Something we eat to give us energy and helps us grow	Build	To make something larger or strong- er	Art—colo Science—
function; - Share the have used;	eir creations, explaining	the process they	tool	An object used to help us to do a job	Create	To make something	
			materials	What objects are made from e.g. wood, paper, bricks	fix	To repair something	
			evaluate	Deciding what is good about your product and what can be improved	Problem-solve	Thinking of a way to overcome a problem	
Preparing for	r		Subs	tantive Knowledge / Key k	Knowledge		
1. Selecting tools	ferent ma	iterials to create wit	h. Children will expe			e to self select a wider variety / dif- nmers and sewing needles. Children	To unders poses
2. Structures	Learning 1	to construct with a pi	urpose in mind. Child	ren will use building blocks and c	reate junk model	S.	To unders ent tools
3. Range of materic	erials As part of continuous provision, children will have ever-changing materials to use to create with. Children will also develop their under- standing when using different materials through more formal directed teaching e.g. making themed cards, making puppets, creating fire work pictures, using sticks. As part of their Forest School learning, children will also use natural materials to build and create.				cards, making puppets, creating fire-	To unders and can b	
4. Problem-solving	Adults will support children to evaluate their creations using stem sentences such as, 'I really like' 'I don't like' 'If I made it again would change'				'I don't like' 'If I made it again, I	To unders you to im	
5. Food and nutritic						food. Children will grow their own constitutes a healthy or unhealthy	To unders
6. Evaluation/discu	tunities to when tast		t make activities saf			it them. Children will be given oppor- eness, and appropriate use of senses	To unders
7.Significant people	e Children v	vill learn about signif	icant designers e.g. l	Elon musk (Tesla), Norman Foste	r (architect) and	Tom Kerridge (Chef)	To unders
7. Design	to encour	age children to articu	ulate their design pro		end the children's	out what children are building / making s reasoning e.g. 'What does do?' 'How	To unders it
			The	mes			
Food	Children to name some	simple food e.g. apple	e, carrot. Explore th	e idea of healthy and unhealthy	foods		• To • Bak
Broadening horizons	Children will get the ex	perience of putting t	theoretical learning i	nto practise in the 'real world.'			• Des • Cre
Innovation	Children will select too	ls and techniques nee	eded to shape, assem	ble and join materials they are u	ısing		• Div • Des
Oute	come	Character Tro	aits	Stickability		WOW	
Children will create bas food, sew the outline o a range of materials.		Ambitious Articu Resilient Curiou Kind Respect	s	vocabulary and skills learn	†		



Links Across the Curriculum

our, texture -food, materials, everyday objects

Disciplinary Knowledge / Skills

stand that different tools can be used for different pur-

stand that different structures can be made using differand materials

stand that different materials have different properties be used for different purposes

stand that asking questions and revisiting plans can help prove your design and generate new ideas

stand what some foods are called and what some foods sed for. To know some healthy and unhealthy foods.

stand that creations can always be improved

stand

stand that it is important to plan a design before we make

kushev

Primary School

wead

Diversity in the Curriculum

make masks for Chinese New Year

- ke Easter cakes
- sign and make a prayer mat—Eid
- eate the Eiffel tower—French week
- va lamps—Diwali
- sign henna patterns—Diwali

Autumn Year 1 - Design and Technology - Chop, Slice and Mash (School Days)

Curriculum Objectives		Vocabulary					
•	To design purposeful, functional, appealing products for themselves and other users based on design criteria To select from and use a range of tools and equipment to	peel	To take the skin off with a peel- er .	tear	To tear apart with your hands.	5	History— Safe gua Packaging
•	perform practical tasks To evaluate their ideas and products against design criteria	slice	To cut into thin, flat pieces .	chop	To cut into small pieces.		
		mash	To crush and soften.	grate	To shred using a grater		

Lessons Seque	ence	Substantive Knowledge / Key Knowledge		
1. Do you know what spec used for particular purpos rules		Children will learn that knives are used for slicing and chopping, a grater is used for grating, a vegetable peeler is used for peeling and a masher is used for crushing. Children will prepare different fruits and vegetables. Children will learn that hand washing and good hygiene are important parts of a	Explain wh the approp	
2. Do you know where foo from.?	od comes	Children will learn that some foods come from animals, such as meat, fish and dairy products. Other foods come from plants, such as fruit, vegetables, grains, beans and nuts.	Sort foods plant sourc	
3. Can you make a healthy	/ salad?	Children will learn that fruit and vegetables are an important part of a healthy diet. It is recommended that people eat at least five portions of fruit and vegetables every day. Fruits and vegetables can be mixed to make a healthy salad. Salad dressings can improve the flavour of salads.	Create a d	
4. What makes a good sandwich de- sign?		Children will learn the importance of a product may be that it fulfils its goals and performs a useful purpose. Children will learn that design criter the explicit goals that a project must achieve. It must be healthy, contain at least three ingredients, look appealing, taste good and be easy to eat hand. Use the useful words to help.		
5. Can you make a superm	arket sand-	To learn about George Samworth—Samworth brothers		
wich?		Children will learn that rules are made to keep people safe from danger. Safety rules include always listening carefully and following instructions, using equipment only as and when directed, wearing protective clothing if appropriate and washing hands before touching food.		
		Children will learn to evaluate their ideas and products against design criteria. Children will learn that a strength is a good quality of a piece of work. A weakness is an area that could be improved.	Talk about or weaknes	
6. How can I evaluate my	product?			
		Themes		
Food		Il be introduced to more tools and ingredients. They will be taught the rules and safety instructions for using new tools. Children will learn food product and evaluate it.	George So	
Broadening horizons				
Innovation				

Outcome	Character Traits	Stickability	wow
To innovate, design and make a supermarket sandwich	Ambitious Articulate Resilient Curious	Recap key vocabulary and skills learnt	Display different types of supermarket sandwich- es. Ask children to describe their favourite and give a reason why.

Links Across the Curriculum

-School days rding - food safety and hygiene g—allergies

Disciplinary Knowledge / Skills

why hand washing and cleanliness are important. Select opriate tool for a simple practical task.

ds into groups by whether they are from an animal or irce

design to meet simple design criteria. Describe why a

e and design a sandwich. To design the food packaging adwich.

ne rules to keep safe during a practical task.

ut their own and each other's work, identifying strengths lesses and offering support.

Diversity in the Curriculum

Samworth—Samworth brothers



Spring Year 1 - Design and Technology - Taxi (Bright Lights, Big City) Rushey Mead

Curriculum Objectives		Voca	bulary		
 To learn about wheels, axles and chassis and how they work together to make a vehicle move. 	axle	A rod or spindle passing through the centre of a wheel	Strength	The positives and effectiveness of the product	Geograph
	chassis	The base frame of a car	weakness	The negatives of the product	
	wheel	A circular object that spins on an	Vehicle	a machine with wheels and an en-	
	rod	A thin straight bar	Taxi	a car with a driver who you pay to	
	spindle	A thin, rounded rod	construction	To build something	

Lessons Sequence	Substantive Knowledge / Key Knowledge	
1. Can you explore different mov- ing objects and identify the wheels, chassis and axles on each?	The children will learn that a wheel is a circular object that is connected to an axle that makes vehicles and machines move. An axle is a rod that is connected to the centre of a wheel, which allows it to turn. A chassis is the frame of a vehicle.	Name and ex they are use
2.To learn about the famous me- chanical engineer—Henry Ford	Children to learn about the significant inventor Henry Ford. Who is Henry Ford? What did he invent?	
2. Can you create a moving vehi- cle using construction kit?	The children will learn that an axle is a rod or spindle that passes through the centre of a wheel to connect two wheels. Most vehicles that move on land have axles and wheels that are fixed to a chassis.	Use wheels
3.Can you create a moving vehicle prototype?	The children will learn that axles and wheels can be attached to chassis in different ways: an axle fixed to a chassis has freely moving wheels, whereas a freely moving axle has fixed wheels.	Describe th
4. Can you design a London taxi model vehicle?	The children will learn that a design criteria are the explicit goals that a project must achieve.	Create a des
5. Can you make a London taxi?	The children will learn that an axle is a rod or spindle that passes through the centre of a wheel to connect two wheels.	Use wheels
6. Can you evaluate your model?	The children will learn that a strength is a good quality of a piece of work. A weakness is an area that could be improved.	Talk about t or weakness

	Themes		
Food		•	Disci fere
Broadening horizons			Disci
	Children will learn about new materials and their functions—axles, chassis, spindles, wheels and rods. Children will fit more complex parts together with a clear purpose of creating a product. They will evaluate their product in more detail	•	Henr

Outcome	Character Traits	Stickability	wow
To create a London taxi model	Articulate Resilient Curious	Recap key vocabulary and skills learnt	Engage children with a selection of everyday objects that can be 'push and pulled' e.g. skate- board, toy cars & suitcase. Allow them to explore how they move.







Links Across the Curriculum

hy—bright lights, big city

Disciplinary Knowledge / Skills

explore a range of everyday products and describe how ised.

s and axles to make a simple moving model.

the similarities and differences between two products.

design to meet simple design criteria.

els and axles to make a simple moving model.

their own and each other's work, identifying strengths sses and offering support.

Diversity in the Curriculum

scuss how transport can be iconic and symbolical of difrent places, cities and countries

scuss the symbolism of the London black cab

enry Ford—American inventor/mechanical engineer



Summer Year 1 - Design and Technology - Shade and shelter (School Days)

Curriculum O	bjectives	Vocabulary					
 To learn about the purpose of she Name and describe shelters and o types. Children then design and be 	design and make shelter proto- uild a play den as a group and	shelter	Shelters are what people and ani- mals use to protect themselves from their surroundings.	difference	Things that are not the same	History- Science-	
evaluate their completed product		shade	To be sheltered from sunlight and heat	Similarity	Things that are the same or close to the same	Forest so	
		den	A shelter or hiding place	Temporary	Lasting for only a short amount of time		
		Strength	Something that is strong	prototypre	An original model which designers take their ideas from		
Lessons Sequence		5	Substantive knowledge/Key Kno	wledge			
1.Do you know what a shelter is?		Children will learn that two products can be compared by looking at a set of criteria and scoring both products against each one. Children will learn shelter is a structure designed to give protection from weather or danger. A shelter can be permanent, like a house or garage, t					
2.Can you identify and describe different materials?	A material is what an object is	material is what an object is made from. Everyday materials include wood, plastic, glass, metal, water, rock, brick, paper and fabric.					
3. Can you design a temporary outdoor shelter?			ealing shelter for themselves and othe as through talking and drawing. Design			terials a	
4. Can you build an outdoor shel-	Children will learn that a struc	ture should have	strong sturdy supports that are join	ed so that they (do not move. The roof and walls	own desi	
ter prototype model? Should have a covering for protection against the weather, and there should be an entry point.						Construct range of to explai	
5. Can you design and build an outdoor den?	Children will learn that rules are made to keep people safe from danger. Safety rules include always listening carefully and following in- structions, using equipment only as and when directed, wearing protective clothing if appropriate. Children will learn that different mate- rials can be used for different purposes, depending on their properties. For example, cardboard is a stronger building material than pa- per. Plastic is light and can float. Clay is heavy and will sink.						
6. Can you evaluate your shelter	Children will learn that a stre	ngth is a good qu	ality of a piece of work. A weakness is	s an area that cou	uld be improved.	Talk abo strength	

	Themes		
Food		•	
Broadening horizons	Children will get the experience of putting theoretical learning (material and their properties) into practise in the 'real world.' Children will explore the outdoors and collect materials based on their properties. Children will problem solve and express their creativity through the designing and building of		
Innovation	Children will learn about the purpose of different shelters. They will explore different materials and problem solve to decide which materials are best fitted for the purpose of a shelter.		

Outcome	Character Traits	Stickability	WOW	
To build a temporary outdoor shel- ter	Ambitious Articulate Resilient respectful	Recap key vocabulary and skills learnt	Shelter spotting activity	



Links Across the Curriculum

-School days

-materials and their properties

chool link

Disciplinary Knowledge / Skills

e the similarities and differences between two products nd explore a range of everyday products and describe how used. Advancement

and name what an object is made from, including wood, glass, metal, water and rock . Explain why particular mare used for different shelters.

design to meet simple design criteria. Evaluate their igns.

ct simple structures, models or other products using a materials. Select and use a range of materials, beginning in their choices.

he rules to keep safe during a practical task. Construct tructures, models or other products using a range of ma-

out their own and each other's work, identifying ns or weaknesses and offering support.

Diversity in the Curriculum

To look at different types of shelters from around the world



Autumn Year 2 - Design and Technology - Remarkable Recipes (Movers and Shakers)

Curriculum Objectives		Vocabulary				
 To learn about sources of food and tools used for food preparation. They also discover why some foods are cooked and learn to read a simple recipe. The children choose and make a new school meal that fulfils specific design criteria. 		hygiene	definition	poultry	Chickens, geese and ducks raised for meat	Science - Safe gua
		Healthy food	Food that gives you all the nutri- ents and vitamins you need	germs	A microorganism that causes dis- ease	
		bacteria	A microorganism that causes dis- ease	pork	Meat from pigs	
		ham	Meat from pigs	recipe	A set of instructions for prepar- ing a meal or making a food	
Lessons Sequence	Substantive Knowledge / Key Knowledge					
1. Do you know different ways to	Children will learn that differe	ent tools have cho	racteristics that make them suitable	e for specific purp	oses. For example, scissors are	Select th
prepare ingredients?	used for cutting paper because they have sharp, metal blades that can cut through thin materials. Some ingredients need to be prepared before they can be cooked or eaten. There are many ways to prepare ingredients; peeling skins using a vegetable peeler, such as potato					

2. Where does our food come	skins; grating hard ingredients, such as cheese or chocolate; chopping vegetables, such as onions and peppers and slicing foods, such as bread and apples.	
from?	Children will learn that food comes from two main sources: animals and plants. Cows provide beef, sheep provide lamb and mutton and pigs provide pork, ham and bacon. Examples of poultry include chickens, geese and turkeys. Examples of fish include cod, salmon and shellfish. Milk comes mainly from cows but also from goats and sheep. Most eggs come from chickens. Honey is made by bees. Fruit and vegetables come from plants. Oils are made from parts of plants. Sugar is made from plants called sugar cane and sugar beet. Plants also give us nuts, such as almonds, walnuts and hazelnuts.	Identify t meats, com
3.Why do we cook our food?	Children will learn that some foods, such as ice and chocolate, melt when heated, but then harden (solidify or freeze) when cooled.	Observe w ing foods, o
4. How do we read a recipe?	Children will learn about personal hygiene and germs including bacteria, viruses, how they are spread and treated, and the importance of handwashing. Ideas can be communicated in a variety of ways, including written work, drawings and diagrams, modelling, speaking and us- ing information and communication technology. Hygiene rules include washing hands before handling food, cleaning surfaces, tying long hair back, storing food appropriately and wiping up spills.	Generate a ent methoc
5. How do we plan a school meal?	Children will learn that many key individuals have helped to shape the world. These include engineers, scientists, designers, inventors and many other people in important roles. School kitchen staff are important people because they provide healthy, nutritious, appealing and	Explain wh communica
6. How do we present a school	Children will learn to use the basic principles of a healthy and varied diet to prepare dishes. They will learn that a healthy diet should	Describe t
7. Did the meal fulfil the design	Children will learn that their finished products can be compared with design criteria to see how closely they match. Improvements can	Explain how

 Food
 Children learnt in Y1 about where food comes from. Children have already learnt about some different tools used in food preparation. Children have a basic understanding of 'healthy foods' and 'unhealthy foods.' Children will learn that many key individuals have helped to shape the world. These include engineers, scientists, designers, inventors and many other people in important roles. School kitchen staff are important people because they provide healthy, nutritious, appealing and balanced meals. Children will look more in depth at where different foods come from, why food is cooked and they will read simple recipes.
 Jamie C

 Broadening horizons
 Innovation
 Innovation

Themes

Outcome	Character Traits	Stickability	WOW
To prepare and make a school meal.	Ambitious Articulate Curious	Recap key vocabulary and skills learnt	Big question—use pictures and see if the children can guess where foods come from—e.g. beef— cow, pork—pigs

Links Across the Curriculum

-states of matter rding - food safety and hygiene

Disciplinary Knowledge / Skills

e appropriate tool for a task and explain their choice. ngredients by peeling, grating, chopping and slicing.

the origin of some common foods (milk, eggs, some mmon fruit and vegetables).

what happens when a range of everyday materials, includ-, are heated and cooled, sorting and grouping them based

and communicate their ideas through a range of differods. Work safely and hygienically in construction and

hy a designer or inventor is important . Generate and ate their ideas through a range of different methods .

the types of food needed for a healthy and varied diet

ow closely their finished products meet their design cri-

Diversity in the Curriculum

Jamie Oliver—British chef



spring Year 2 - Design and Technology - Push and pull (Coastline)

Curriculum Objectives		Voc	abulary		
 To learn about different types of mechanism: sliders, levers and linkages. They make models of each mechanism before de- signing and making a moving picture based on the seaside. 	slider	a rigid bar which moves backwards and forwards along a straight line.	slot	A long, narrow opening	Geography
	lever	a bar used to pry or move some- thing.	linkage	a system of links that are joined together to change movement.	
	Mechanism	a system or structure of moving parts that performs a particular function, especially in a machine	Force	an action that changes or main- tains the motion of a body or ob- ject.	

Rushey Mead

Lessons Sequence	Substantive Knowledge / Key Knowledge	
1. Can you explore different ma- chines and mechanisms and dis-	People build machines to make their work easier. A machine is made up of different parts that all work together to perform a task. In- dividual parts of a machine are called components. The part that brings about movement is called the mechanism.	Use a range models or p
2. Can you create a slider mecha- nism?	A mechanism is a device that takes one type of motion or force and produces a different one. A mechanism makes a job easier to do. A slider mechanism moves in a straight line. This can be up and down or from side to side. It is made up of a slider and slider support to direct the movement. Real-life examples of slider mechanisms include door bolts and drawers.	Use a range models or p
3. Can you create a lever mecha- nism?	A lever mechanism is a bar that moves around a fixed point called a pivot. The amount of movement depends on the position of the pivot. Levers move an object in an arc shape. Real-life uses of levers include scissors and seesaws.	Use a range models or p
4. Can you make a linkage mecha- nism?	A linkage mechanism combines levers and sliders. It consists of two or more bars joined together by pivots. Fixed pivots attach the linkage mechanism to a fixed base to keep the joint still. Moving pivots join two bars together, but the bars can still move freely. Real- life uses of linkages include toolboxes and scissor lifts.	Use a range models or pi
5. Can you design an 'under the sea' or 'seaside' moving picture?	Products can be improved in different ways, such as making them easier to use, more hardwearing or more attractive.	Explain how
6. Can you create an 'under the sea' or 'seaside' moving picture?	Moving mechanisms are made using stiff materials, such as card, plastic or metal, so as not to bend or break when force is applied. Ma- terials should be cut, joined and finished carefully and appropriately to make sure the product works, looks appealing and achieves the design criteria.	Choose appr manipulatin <u>c</u>
7. Can you evaluate your com- pleted moving picture?	Finished products can be compared with design criteria to see how closely they match. Improvements can then be planned.	Explain how teria and sa

	Themes								
Food									
Broadening horizons									
Innovation	Children will now learn c	ldren will now learn about other mechanism that can create movement in a different type of product—levers, sliders and linkages.							
Oute	Outcome Character Traits		Stickability	WOW					
					11				

Outcome	Character Traits	Этіскарііту	WOW
Children will complete a moving picture (under	Articulate	Recap key vocabulary and skills learnt	Engage children with the video of different ma-
the sea or seaside themed)	Resilient Curious		chines and mechanisms.





Links Across the Curriculum

ny—coastline

Disciplinary Knowledge / Skills

ge of mechanisms (levers, sliders, wheels and axles) in products.

ge of mechanisms (levers, sliders, wheels and axles) in products. Make models with moving parts.

ge of mechanisms (levers, sliders, wheels and axles) in products. Make models with moving parts.

ge of mechanisms (levers, sliders, wheels and axles) in products. Make models with moving parts.

ow an everyday product could be improved.

propriate components and materials and suggest ways of ing them to achieve the desired effect.

ow closely their finished products meet their design crisay what they could do better in the future.

Diversity in the Curriculum

Idren to base on 'the great British seaside'



Summer Year 2 - Design and Technology - Cut, stitch and join (Magnificent Monarchs)

Curriculum Objectives		Vocabulary						
 To learn about different fabrics and 		Running stitch	a simple needlework stitch con- sisting of a line of small even stitches which run back and forth through the cloth	Tapestry	a heavy cloth that has designs or pictures woven/painted/or drawn onto it	History— A		
		improved	Made better	needle	A fine piece of metal with a point at one end and an eye for a			
		sewing	Using a needle and thread to at- tach pieces of fabric together	embellishment	A decorative detail			
Lessons Sequence			Key Knowledge					
1. Can you suggest how everyday products could be improved?		hildren will learn that products can be improved in different ways, such as making them easier to use, more hardwearing or more at- ractive. There are many fabric home products. These include bedding, tea towels, cushions, tea cosies, toiletry bags and other contain-						
2. What is tapestry art? (The original designer)	Children to learn about the his tised all over the world for th dead. The Greeks and Romans	children to learn about the history and cultural influence of tapestry art. Tapestry is an ancient form of textile art which has been prac- tised all over the world for thousands of years. Ancient Egyptians and the Incas used woven tapestries as shrouds in which to bury their dead. The Greeks and Romans used them as wall-coverings for civic buildings and temples like the Parthenon. British monarchs—For many centuries tapestries were the primary decorative form at the royal court, far exceeding paintings or other works of art in status and						
3. Can you use the appropriate tools to cut out and create a sew-	Children will learn that differ	ent tools have cha	racteristics that make them suitable	e for specific purp	oses. For example, scissors are	Select the		
4. Can you create a basic running		e they have sharp, metal blades that can cut through thin materials. A sewing pattern is a template of the ent or product. Pattern pieces are usually made from paper.						
stitch to join two pieces of fab- ric?	Children will learn that a runn an even distance.	ing stitch is a basic stitch that is used to join fabric. It is made by passing a needle in and out of fabric at						
5. Can you create an embellish-		ellishment is a dec	orative detail or feature added to so	omething to make i	t more attractive.	Add simple sequins and		
6 Can you design a tapestry background?	Children to learn that ideas co and using information and com		ed in a variety of ways, including writ plogy.	ten work, drawings	s and diagrams, modelling, speaking	Generate a ent method		
7 Can you make a tapestry back- ground?		Children to learn that properties of components and materials determine how they can and cannot be used. For example, plastic is shiny ind strong but it can be difficult to paint.						
8. Can you evaluate your finished tapestry background?	Children to learn that finished planned.	d products can be	compared with design criteria to see	e how closely they i	match. Improvements can then be	Explain how teria and so		

Themes

Food		•	Child Child					
Innovation	ation In different contexts Children will practise and create a running stitch. Children will create an embellishment.							
Broadening horizons	Children will learn about tapestry and explore it's history and significance.		estry					

Outcome	Character Traits	Stickability	WOW
Children to create a royal portrait tapestry wall hanger background (to combine with art - portraits & poses—paint portrait onto)	Ambitious Articulate Resilient Curious	Recap key vocabulary and skills learnt	Engage children by displaying a variety of differ- ent tapestry art. Display tapestries in a gallery.



Links Across the Curriculum

Magnificent monarchs

Disciplinary Knowledge / Skills

now an everyday product could be improved. (stitching, ubrics and finishing).

ow tapestry art has been significant throughout history t iis influenced by different cultures.

e appropriate tool for a task and explain their choice.

rent methods of joining fabrics, including glue and runh. Create a running stitch pattern along the edge of the

le decorative embellishments, such as buttons, prints, nd appliqué.

and communicate their ideas through a range of differods.

ppropriate components and materials and suggest ways of ing them to achieve the desired effect.

ow closely their finished products meet their design crisay what they could do better in the future.

Diversity in the Curriculum

ldren to explore the history of tapestry worldwide

ldren to create a British monarch portrait inspired tapry



Autumn Year 3 - Design and Technology—Cook well, Eat well (Through the ages)

			U			•		
Curricu	ulum Ob	ojectives		Voca	bulary			
 To learn about food grou about methods of cooking 		ne Eatwell guide. They learn lore these by cooking pota-	dice	To cut foods into small squares	roast	To cook something in oil in the dry heat of an oven.	Geography- PSHE—Hea	
		choose and make a taco fill-	fry	To cook something in hot oil.	bake	To heat in an oven		
ing according to specific o	design cr	חפרום.	marinate	To leave foods in a mixture, usually containing herbs and spices, before cooking to add extra flavour.	grill	To heat on a grill		
			drizzle	To pour liquid slowly over something.	nutrients	the substances in food that our bod- ies process to enable it to function		
Lessons Sequence	2			Substantive Knowledge / Key Kn	owledge			
 What is a healthy balance det? How can we cook potatoe 	should be eaten regularly as part of a balanced diet: fruit and vegetables; carbohydrates (potatoes, bread, rice and pasta); proteins (beans, pulses, fish, eggs and meat); dairy and alternatives (milk, cheese and yoghurt) and fats (oils and spreads). Foods high in fat, salt and sugar should only be eaten occasionally as part of a healthy, balanced diet. Humans have to get nutrition from what they eat. It is important to have a balanced diet made up of the main food groups, including proteins, carbohydrates, fruit and vegetables, dairy prod-						Identify th fruits and v in design an portance ar	
3.What are the different w	vays to	The children will learn about ing and skinning. Electrical ap	preparation te pliances must o	preparation techniques for savoury dishes include peeling, chopping, deseeding, slicing, dicing, grating, mix- liances must only be used under the supervision of an adult. Safety rules must also be followed when using objects must not be put into electrical outlets, anything with a cord or plug should never be used around				
cook food? What are the di ent appliances that we use t cook food?			eparation techr	niques for savoury dishes include peeling		eeding, slicing, dicing, grating, mixing	Prepare and	
4. What fillings can we have taco?5. What are the different was set of the tace the different was set of the tace the different was set of the tace the tace tace tace tace tace tace tace tac	4. What fillings can we have in a taco? And skinning. The children will learn that the design criteria are the exact goals a project must achieve to be successful. These criteria might include the product's use, appearance, cost and target user. The types of food that will grow in a particular area depend on a range of factors, such as the rainfall, climate and soil type. For example, many crops, such as potatoes and sugar beet, are grown in the south-east of Eng-						Develop des foods that	
to cook food? What are the ferent appliances that we us cook food?			-	an filling and topped with salsa, lettuce o niques for savoury dishes include peeling		eeding, slicing, dicing, grating, mixing	Prepare and	
6. Did your taco filling inclue food from all food groups?		Asking questions can help others to evaluate their products, such as asking them whether the selected materials achieved the purpose of the model.						
				Themes				
				ferent food groups which will help to rei nutrients that foods provide. Children w			Tasting foo Martha Ort	

Outcome	Character Traits	Stickability	WOW
To design and make a taco filling of their choice.	Articulate Curious	Recap key vocabulary and skills learnt	Food group—sorting cards. Assess what they may already know and then talk through.

To introduce children to foods from different countries that they may not have tried before e.g. ratatouille and tacos

Broadening horizons

Innovation

Links Across the Curriculum

y—food harvesting and climate ealth eating

Disciplinary Knowledge / Skills

the main food groups (carbohydrates, protein, dairy, d vegetables, fats and sugars). Describe how key events and technology have shaped the world. Explain the imand characteristics of a healthy, balanced diet.

ances safely with adult supervision . Prepare and cook a voury dish.

nd cook a simple savoury dish.

design criteria to inform a design. Identify and name at are produced in different places.

nd cook a simple savoury dish

mprovements to their products and describe how to imhem, beginning to take the views of others into account

Diversity in the Curriculum

ood from different countries of origin- Mexico and Italy Drtiz (Mexican)



Spring Year 3 - Design and Technology - Making it move (Rocks, Relics and Rumbles)

Curricu	ulum O	bjectives		Vocabulary				
ent shaped cams before c	designing	They experiment with differ- g, making and evaluating a ne work of a well-known toy	sliders	a rigid bar which moves backwards and forwards along a straight line	axles	A rod or spindle passing through the cen- tre of a wheel	Geograph	
maker.	kpiore ii	ie work of a weir-known toy	levers	.a fixed bar used to move a heavy load	wheels	A circular object that spins on an axle		
			linkages	a system of links that are joined together to change movement.	cam			
			Machine		Mechanism			
Lessons Sequence	2	Substantive Knowledge / Key Knowledge						
 Can you construct a simple mechanism model and descr how its parts create movem 	ibe	needed to lift a heavy object.	Sliders move from	ar that rotates around a fixed point, n side to side or up and down, and are ving vehicle. Cams are devices that c	e often used to ma	ke moving parts in books. Axles are	Explain use a ra cams) ir	
2. Can you learn about a sigr		Children to learn about the aut	tomata toy maker	—Ron Fuller (toy designer). Who is h	e? What did he ma	ake?	To be a	
cant toy maker? - Ron Fuller 2. Can you make a simple car mechanism?		Children to learn that different tools can be used for specific purposes. Levers consist of a rigid bar that rotates around a fixed point, called a fulcrum. They reduce the amount of work needed to lift a heavy object. Sliders move from side to side or up and down, and are often used to make moving parts in books. Axles are shafts on which wheels can rotate to make a moving vehicle. Cams are devices that can convert circular motion into up-and-down motion. Cam mechanisms consist of an axle, a cam and a follower. The cam is fixed to the axle and the follower sits on the cam. When the axle is rotated, the follower moves up and down, following the shape of the cam. Cams are used						
 Can you predict and test movement of different shap cams? 	ped	tionary for half a turn, then it uous up and down movement. I	Children to learn that different shaped cams produce different patterns of movement in the follower. A pear cam makes the follower sta- tionary for half a turn, then it gently rises and falls. It is used for carousel horses. An off-centre circular cam produces a smooth, contin- uous up and down movement. It is used for steam engine pistons. A heart cam makes a jerky, irregular up and down movement. A snail cam makes the follower stationary for half a turn, then gently rise and quickly fall.					
4. Can you design a volcano mated toy?				specific task must be selected on th nata are machines that seem to move			Suggest impleme count. U	
5. Can you create a volcano mated toy?	auto-		e followed to prev			lue, nails, staples, or a combination a bench hook to keep the wood still,	compon electric	
6. Can you evaluate your au ed toy?	tomat-	Children to learn that asking q achieved the purpose of the m	•	others to evaluate their products, su	ich as asking them	whether the selected materials	Suggest impleme count.	
	Themes							
Food								
Broadening horizons								
		n will now combine all the mechar d child's toy. Children will use mo		arnt about in Y1 & Y2 (leavers, sliders s such as craft knives.	s, axles, wheels, lin	kages) to make a more complex au-		

Outcome	Character Traits	Stickability	WOW
 To make a child's automated toy (volcano theme) 	Ambitious Articulate Resilient	Recap key vocabulary and skills learnt	Show children a video of automated toys to in- spire them Display for whole school showcase once finsihed



Links Across the Curriculum

y—rocks, relics and rumbles

Disciplinary Knowledge / Skills

how an existing product benefits the user. Explore and inge of mechanisms (levers, sliders, axles, wheels and n models or products.

ble to explain the significant work of a famous designer

Is safely for cutting and joining materials and compo-Explore and use a range of mechanisms (levers, sliders, heels and cams) in models or products.

and use a range of mechanisms (levers, sliders, axles, and cams) in models or products.

design criteria to inform a design. Plan which materials needed for a task and explain why.

t improvements to their products and describe how to ent them, beginning to take the views of others into ac-Jse tools safely for cutting and joining materials and ents. Make working models with simple mechanisms or al circuits.

t improvements to their products and describe how to ent them, beginning to take the views of others into ac-

Diversity in the Curriculum



Summer Year 3 - Design and Technology - Greenhouse (Emperors and Empires)

			J		JI		•	
Curr	iculum O	bjectives		Voca	bulary			
greenhouses, and comp house designers. They	oares the wo learn techr	ture and design features of ork of two significant green- niques to strengthen struc-	Appearance	The way something looks	greenhouse	A building with glass walls and a class roof	History—Le history.	
tures and use tools saf construct a mini greenł		use their learning to design and	frame	A basic shape that outlines a structure	investigate	To look carefully and closely as to learn facts	Science—m Science—Pl	
			structure	Anything made up of parts held together in a particular way.	strengthened	To gain strength; grow stronger		
Lessons Sequen	nce		Key Knowledge					
1. Can you investigate how ferent products are desig different purposes?		Children will learn that a gree	nhouse is a buildir	e been designed for specific tasks, su ng where plants can grow in a warm ar pofs. Windows, vents or fans provide	nd protected enviro		Explain how	
2. Can you compare the w two significant greenhous signers?		Children will learn about Sir Joseph Paxton (designer of the great conservatory—Chatsworth house) and Sir Nicholas Grimshaw (designer of biomes at the Eden project.)						
3. Can you create a strengthened frame structure? Children will learn that Shell s from thin, rigid components, su the structure. Diagonal struts			structures are hollow, 3-D structures with a thin outer covering, such as a box. Frame structures are made uch as a tent frame. The rigid frame gives the structure shape and support. Diagonal struts can strengthen s create triangular shapes within a frame structure. Adding diagonal struts adds strength and stability. Ilar shapes within a frame structure. Adding diagonal struts adds strength and stability.					
4. Can you use tools safel and join materials?	ly to cut	Children will learn that Specif of these. Safety rules must be	ic tools can be used for cutting, such as saws. Wood can be joined using glue, nails, staples, or a combinati e followed to prevent injury from sharp blades. These rules include using a bench hook to keep the wood th a pistol grip and working under adult supervision. A hot glue gun can join materials, including wood, som				Use tools so	
5. Can you explore differ terials and select the bes rial for building your gree	e best mate- as well as availability and cost Children will learn that Materials such as alass and plastic are suitable for making areenhouse roofs and							
6. Can you design a mini g house?	green-	Children will learn that the de product's use, appearance, cos	•	the exact goals a project must achie r.	ve to be successfu	l. These criteria might include the	Develop des Suggest imp	
7. Can you evaluate your <u>c</u> house?	luate your green- Asking questions can help others to evaluate their products, such as asking them whether the selected materials achieved the purpose of						plement the	
			Т	hemes				
Food							Sir Joseph Sir Nicholas	
Broadening horizons	Children will	l continue to build their problem	solving, creativit	y and resilience skills by building a gr	reenhouse. Childre	n will learn about two significant	Sir Nicholas	

Innovation	Children will use more complex tools e.g. hacksaws and nails. Children will explore more materials and consider their purposes for their product e.g. glass—transparent to let the sun through but also strong. They will also use a hot glue gun.

Broadening horizons

greenhouse designers from British history.

Outcome	Character Traits	Stickability	wow
To create a mini-greenhouse	Articulate Resilient Curious	Recap key vocabulary and skills learnt	Show a video of different greenhouses and their contents



Links Across the Curriculum

Learn about great artists, architects and designers in

materials and their properties Plants, nutrition and reproduction

Disciplinary Knowledge / Skills

ow an existing product benefits the user.

re the work of two significant greenhouse desginers

ell or frame structures using diagonal struts to en them.

safely for cutting and joining materials and components.

n materials will be needed for a task and explain why.

lesign criteria to inform a design.

mprovements to their products and describe how to imhem, beginning to take the views of others into account.

Diversity in the Curriculum

h Paxton

olas Grimshaw



Autumn Year 4 - Design and Technology - Fresh Food, Good Food (Invasion)

Cur	riculum Objec	tives		Vocabulary						
		ation. They discover key	preserving	To maintain something	bacteria	A type of microorganism . Some can be	Maths—n History—			
ples. The children pro		kaging, then make exam- l evaluate a healthy	microorganisms	Living things too small not to be seen with	food poisoning	An illness caused by eating contaminated	signed di Geograph			
snack.			pasteurising	Milk is heated to a high temperature to kill the microor- ganisms and then quickly cooled.	fungi	Group of living things; mushroom, mould	growth			
			drying	Moisture is removed from foods, which stops microorganisms from growing.	pickling	Food is placed in a liquid, such as vinegar or brine, that prevents oxygen from reaching microorganisms in the food.				
		salting Foods are covered with salt, which removes moisture so that microorganisms cannot grow. Foods are sealed in cans, which are heated to kin the microorganisms in the food.								
Lessons Seque	ence		Su	ıbstantive Knowledge / Key Kn	owledge					
1.Why was the 'use by' o vented?	date in- The show	will learn that food packaging p s the date after which the food		in keeping foods fresh. The 'use by' date shows or texture.	s when the food is no lo	nger safe to eat. The 'best before' date	Explain h world.			
2. How does food packa to preserve and protec	t food ? phases prove	ise, such as the use of a particu	lar material or feature	can shape the world. Design features are the a that makes the product easier to use or more uits in California in the United States of Ameri	durable. Particular are		Investige uct. Explo the world			
3.What types of food c packaging be used for?	-up	f a design that will look like the	finished product but 1	ced from a net. Packages can be strengthened b may not be full size or made of the same mater	ials. Shell and frame st	tructures can be strengthened by gluing	ent place. Use anno			
	righ	right-angled triangle and glued over each joint to straighten and strengthen them). Annotated sketches and exploded diagrams show specific parts of a design, highlight								
4. What makes a snack	The althy? Children will learn that cooking techniques include baking, boiling, frying, grilling and roasting. Healthy snacks include fresh or dried fruit and vegetables, nuts and seeds, rice cakes with low-fat cream cheese, homemade popcorn or chopped vegetables with hummus. A healthy packed lunch might include a brown or wholemeal bread sandwich containing eggs, meat, fish or cheese, a piece of fresh fruit, a low-sugar yoghurt, rice cake or popcorn and a drink, such as water or semi-skimmed milk.									
5. How can a healthy sn	ack be	5 55 * *	•		-		ple meal o plain why			
packaged?	teri are cho low-	Children will learn that different materials and components have a range of properties, making them suitable for different tasks. It is important to select the correct material or component for the specific purpose, depending on the design criteria. Recipe ingredients have different tastes and appearances. They look and taste better and are cheaper when in season. Healthy snacks include fresh or dried fruit and vegetables, nuts and seeds, rice cakes with low-fat cream cheese, homemade popcorn or chopped vegetables with hummus. A healthy packed lunch might include a brown or wholemeal bread sandwich containing eggs, meat, fish or cheese, a piece of fresh fruit, a low-sugar yoghurt, rice cake or popcorn and a drink, such as water or semi-skimmed milk. Foods need packaging to keep them fresh, safe to eat and free from damage. Food packaging also provides nutritional information about the food inside, 'use by' and 'best before' dates, and the materials and recyclability of the packaging.								
6. What information ne on the packaging?	eeds to be Chil mec pria	ren will learn that chemicals are cines. Most chemical products c e safety precautions, such as w	e used in the home even arry a hazard symbol s earing goggles and glov	ry day. They include cleaning products, such as showing in what way the chemical could be harm res, working in a well-ventilated room, wiping up	bleach and disinfectan ful. Chemicals should o spills and tying back lo	t, but also paints, glues, oils, pesticides and nly be used under adult supervision. Appro- ng hair, should be taken. Healthy snacks	Work sa such as d a healthy			
7 Nidurum nachasina k	lunc	de fresh or dried fruit and vege 1 might include a brown or whole	meal bread sandwich c	s, rice cakes with low-fat cream cheese, homem ontaining eggs, meat, fish or cheese, a piece of	ade popcorn or chopped fresh fruit, a low-sugo	a vegetables with hummus. A healthy packed ar yoghurt, rice cake or popcorn and a drink,	Identify could be i			
7. Did your packaging k		uation can be done by considerin	g whether the product	does what it was designed to do, whether it he	as an attractive appear	ance, what changes were made during the	others w			
			т	hemes						
Food	They need to cor			we keep food fresh. Children will crea ne buyer to their product but also nee			Ancient French i Scottist			
Broadening horizons							Americo French			
Innovation							Nadiya			
Outo	come	Character Tr	raits	Stickability		WOW	ladiyu			
To make and package a	healthy snack.	Curious Articulate	Recap ke	ey vocabulary and skills learnt	Show a range o	f food packaging				



Links Across the Curriculum

nets for 3D shapes

-how significant designers throughout history have deifferent way in which to store and preserve food ny—different climates are suited to different fiood

Disciplinary Knowledge / Skills

now and why a significant designer or inventor shaped the

pate and identify the design features of a familiar prodlain how and why a significant designer or inventor shaped d. Identify and name foods that are produced in differes in the UK and beyond.

tated sketches and exploded diagrams to test and comtheir ideas. Prototype shell and frame structures, showeness of how to strengthen, stiffen and reinforce them.

v and use a range of cooking techniques to prepare a simor snack. Design a healthy snack or packed lunch and exv it is healthy.

healthy snack or packed lunch and explain why it is Choose from a range of materials, showing an underof their different characteristic.

fely with everyday chemical products under supervision, lisinfectant hand wash and surface cleaning spray. Design v snack or packed lunch and explain why it is healthy.

what has worked well and what aspects of their products improved, acting on their own suggestions and those of hen making improvements

Diversity in the Curriculum

Egypt—food drying inventor - Nicolas Appert h scientist, William Cullen an inventor—Jacob Perkins chemist - Louis Pasteur

Hussein



Spring Year 4 - Design and Technology - Fancy fabrics (Misty Mountains, Winding Rivers)

				-						
Curriculum Objectives					Voca	bulary				
 To learn about home William Morris. They 	/learn techni	ques for dea	corating fabric,	Fabric	a cloth made by knitting or weav- ing together fibres.	Polyester	A synthetic material	Science-p		
	including block printing, hemming and embroidery and use them to design and make a pencil case.			Natural	Not made by humans	Silk	Natural, soft material			
to design and make a	i pencii case.			Synthetic	Made by humans	Hem	A border of a cloth made by fold- ing back an edge and sewing it down.			
				Running stit	a simple needlework stitch con- sisting of a line of small even stitches which run back and forth through the cloth	sewing	Using a needle and thread to at- tach pieces of fabric together			
Lessons Seque	ence		Substantive Knowledge / Key Knowledge							
1. Can you explore differe and explain their propert			hildren will learn that a comparison table can be used to compare products by listing specific criteria on which each product can be judged or scored. abrics can be natural or synthetic. Natural fabrics include cotton, silk and wool. Synthetic fabrics include Lycra, polyester and nylon.							
2. Can you explore and dis	scuss the	Children wi usability.	ll learn that design fea	itures include pu	rpose and function, appearance, quality, mat	erial, size, colour, po	attern, embellishment, durability and	pare two or Create and		
design features of every ucts?	day prod-				sh textile designer, artist and socialist activ traditional British textile arts and methods		the British Arts and Crafts Movement.	ucts. Invest		
3. Who is William Morris?	\$	Children will learn that block printing techniques and fabric paint are used to create decorative, repeated patterns on fabrics. Different printmaking techniques include monoprinting, engraving, etching, screen printing and lithography.								
4. Can you create a Willia inspired block print?	ım Morris	Children will learn that annotated sketches and exploded diagrams show specific parts of a design, highlight sections or show functions. They communi- cate ideas in a visual, detailed way.								
5 Can you design a Willia inspired fabric?	ım Morris	Children will learn that useful tools for cutting include scissors, craft knives, junior hacksaws with pistol grip and bench hooks. Useful tools for joining include glue guns. Tools should only be used with adult supervision and safety rules must be followed. Joining tools to use with fabric include needles, pins and clips, cutting tools include a variety of scissors such as pinking shears, finishing tools include an iron and ironing board. Joining tools to use with fab-								
6. Can you create a Willia inspired fabric?	ım Morris				lude a variety of scissors such as pinking sh			Use a range media collag		
7. Can you sew a hem?			Children will learn that a hem runs along the edge of a piece of cloth or clothing. It is made by turning under a raw edge and sewing to give a neat and quality finish.							
8. Can you create an embr bellishment?	roidery em-		ll learn that stitches ir , embellish fabric.	nclude running st	itch, cross stitch and blanket stitch. Embro	idery stitches, such	as scatter stitches, satin stitch and	Select, nam		
9. Cab you evaluate your	product?	ance, what			considering whether the product does what process and why the changes were made. Eve			Identify wh be improved making impr		
					Themes					
Food								- To learn c		
Innovation					v sewing a more complex product (pencil embroid an embellishment to add to th					
Broadening horizons	Children wil	l now learn c	about the history of	printing-bloc	<printing. about="" fam<="" learn="" td="" the="" they="" will=""><td>ous British design</td><td>er, William Morris.</td><td></td></printing.>	ous British design	er, William Morris.			
Oute	come		Character Tr	aits	Stickability		WOW			
To create a pencil case inspired motif patterns	e a pencil case using William Morris Articulate Recap key vocabulary and skills						by showing the children a variety rris' work.			

Links Across the Curriculum

-properties of different materials

Disciplinary Knowledge / Skills

rom a range of materials, showing an understanding of their difharacteristics. Create and complete a comparison table to comor more products.

nd complete a comparison table to compare two or more prodestigate and identify the design features of a familiar product.

ow and why a significant designer or inventor shaped the world.

a variety of printmaking techniques and materials to create a a theme. Create detailed decorative patterns on fabric using rechniques.

tated sketches and exploded diagrams to test and communicate as.

ge of stitches to add detail and texture to fabric or mixedlages.

a hem or seam using a running stitch.

ame and use tools with adult supervision.

what has worked well and what aspects of their products could ved, acting on their own suggestions and those of others when nprovements.

Diversity in the Curriculum

n about William Morris—a British designer



summer Year 4 - Design and Technology - Tomb builders (Ancient civilisations)

Curriculum Objectives					Vocabulary					
 To learn about simple planes, pulleys and lev builders to lift and m 	vers, explorii	ng how they		Inclined p	olane	A ramp that assists moving heavy objects up and down heights.	lever	Used in machines to increase force	History-	
						A rod passing through the centre of a wheel	gears	Rotating wheels that have teeth that slot together. They rotate.		
				cam		A rotating piece in a mechanical linkage	pulley	A rope looped over a wheel which is used to lift heavy objects		
Lessons Seque	ence				Sub	ostantive Knowledge / Key Kno	owledge			
1. Can you identify the of simple machines?	purposes	moving to	Children will learn mechanisms can be used to add functionality to a model. Pulleys in cable cars or transport systems and cams in 3-D moving toys or pictures. Simple machines make physical jobs easier by changing the strength or direction of a force. There are six simple machines: pulley; lever; wheel and axle; wedge; inclined plane; and screw. Simple machines can be combined to make complex, compound machines.							
2.Can you explore and u machines?	ise simple		Children will learn that mechanisms can be used to add functionality to a model . Simple machines make physical jobs easier by changing the strength or direction of a force.							
3. Can you make a simple chine?	e ma-	Children will learn about the characteristics of materials, such as rigidity, strength and smoothness will affect the success of a working model.							Choose f their dif	
4. Can you design and bu prototype machine to h ancient Egyptian tomb b move and lift heavy stor	nelp the builders		vill learn that simple nove heavy objects.	machines inc	cluding	g pulleys, levers, wheels and axles and	d inclined planes c	an be combined to make a machine	Explore and pulle	
make pyramids? 5. Can you share and eve your model?	aluate	tractive a		nges were m	ade di	y considering whether the product do uring the making process and why the hould be made.		-	Identify could be others w	
					T	hemes				
Food									- To lea cient Ec nal inve	
Broadening horizons	Children wil	Children will now learn about how people of 3 ancient civilisations designed 'original machines' to help them left stones for building pyramids and tombs.								
Innovation	Children wil	children will learn about gears. Children will now combine their knowledge of the different mechanisms to create a stone lifting machine.								
Outo	come		Character Tro	aits		Stickability		WOW]	
To create a stone liftir Egyptian tomb builders	create a stone lifting machine to help the Ambitious Articulate Recap key vocabulary and skills learnt Share a video of different machine that make jobs easier						of different machine that make			

Links Across the Curriculum

-ancient civilisations

Disciplinary Knowledge / Skills

and use a range of mechanisms (levers, axles, cams, gears eys) in models or products

and use a range of mechanisms (levers, axles, cams, gears eys) in models or products.

from a range of materials, showing an understanding of fferent characteristics.

and use a range of mechanisms (levers, axles, cams, gears eys) in models.

what has worked well and what aspects of their products improved, acting on their own suggestions and those of vhen making improvements.

Diversity in the Curriculum

arn about the ancient civilisation (ancient Sumer, angypt and the Indus Valley civilization) and the origientors of pyramids and tombs.



Autumn Year 5 - Design and Technology - Eat the seasons (Dynamic Dynasties)

Curriculum Objectives		Vocabulary					
 To learn about the meaning and benefits of seasonal eating, including food preparation and cooking techniques. 	seasonality	Is the time of year when the har- vest or flavour of a type of food is at its best.	Food hygiene	Handling, preparing and storing food or drink in a way that best reduces the risk of illness from bacteria on the food.	Geography- Anne-Sophie		
	steaming	To apply steam to cook	Nutritional value	well-balanced amount of the es- sential nutrients carbohydrates, fat, protein, minerals, and vita- mins in items of food .			
	sautéing	To cook using a small amount of fat in a shallow pan	Micro-organisms	Living things that are too small to be seen with the naked eye			

Lessons Sequence	Substantive Knowledge / Key Knowledge	
1.What are the benefits of sea- sonal eating?	Children will learn that foods can be prepared and cooked in different ways to achieve different results. Food hygiene is important to prevent the spread of disease-causing microorganisms. Seasonality is the time of year when the harvest or flavour of a type of food is at its best. Buying seasonal food is beneficial for many reasons: the food tastes better; it is fresher because it hasn't been transported thousands of miles; the nutritional value is higher; the carbon footprint is lower, due to reduced transport; it supports local growers and	Describe w why it is ber
2.Which fruit and vegetables are currently in season?	Children will learn that a balanced diet gives your body all the nutrients it needs to function correctly. This means eating a wide variety of	Evaluate me diet.
3.What is the nutritional value of soup?	Children will learn that sweet dishes are usually desserts, such as cakes, fruit pies and trifles. Savoury dishes usually have a salty or spicy flavour rather than a sweet one. Foods can be prepared and cooked in different ways to achieve different results. Food hygiene is im-	Use an incre cook a savou
4. Can you design and make a healthy, seasonal soup for four people ?	Children will learn that a balanced diet gives your body all the nutrients it needs to function correctly. This means eating a wide variety of foods in the correct proportions. Know what constitutes a healthy diet (including understanding calories and other nutritional content).	Evaluate me diet.
5. Can you prepare and cook the soups?	Children will learn that sweet dishes are usually desserts, such as cakes, fruit pies and trifles. Savoury dishes usually have a salty or spicy	Use an incre cook a savou
6. Can you evaluate your peers soup?	Children will reflect on the recipes and cooking techniques they have used to make their soup. Children will review that a balanced diet gives your body all the nutrients it needs to function correctly. This means eating a wide variety of foods in the correct proportions. Know	Evaluate me diet

 Themes

 Food
 Children will now learn about what foods are readily available and in what seasons.
 Anne--

 Broadening horizons
 Stickability
 Model

 Innovation
 Character Traits
 Stickability
 WOW

 To design and make their own soup.
 Articulate Curious
 Recap key vocabulary and skills learnt
 https://www.bbc.co.uk/bitesize/topics/ zjr8mp3/articles/zb23p4j
 Articulate/ zjr8mp3/articles/zb23p4j



Links Across the Curriculum

y—seasons and food growth in the UK nie Pic - French

Disciplinary Knowledge / Skills

what seasonality means and explain some of the reasons beneficial.

meals and consider if they contribute towards a balanced

creasing range of preparation and cooking techniques to voury dish .

meals and consider if they contribute towards a balanced

creasing range of preparation and cooking techniques to voury dish .

meals and consider if they contribute towards a balanced

Diversity in the Curriculum

Anne-Sophie Pic - French



spring Year 5 - Design and Technology - Moving mechanisms (Sow, Grow and Farm)

	Voca	bulary		
culture	Beliefs and behaviours that are traditionally practiced by a group of people.	Jack	A device for lifting a heavy ob- ject	Geograph
pneumatic	Using air to move	jackhammers	A pneumatic hammer or drill	
mechanism	A tool used to control motion	Function	The purpose of the object	
Si	ubstantive Knowledge / Key Kr	nowledge		
ure is the language,	inventions, ideas and art of a group of	of people. A societ		Use mecl plain how
	pneumatic mechanism Su ure is the language,	culture Beliefs and behaviours that are traditionally practiced by a group of people. pneumatic Using air to move mechanism A tool used to control motion Substantive Knowledge / Key Kr ure is the language, inventions, ideas and art of a group of a group of people.	culture traditionally practiced by a group of people. Jack pneumatic Using air to move jackhammers mechanism A tool used to control motion Function Substantive Knowledge / Key Knowledge ure is the language, inventions, ideas and art of a group of people. A societ	cultureBeliefs and behaviours that are traditionally practiced by a group of people.JackA device for lifting a heavy ob- jectpneumaticUsing air to movejackhammersA pneumatic hammer or drillmechanismA tool used to control motionFunctionThe purpose of the object

used mainly in China and Japan. The design of products needs to take into account the culture of the target audience. For example, col- ours might mean very different things in different cultures. A pneumatic system uses air to exert a force. This force is used in pneumat- ic jacks to lift vehicles, in paint sprayers to force paint out at high speed, in jackhammers to break up pavements and in train and bus brakes.	ture or soc
Children will test a product against the design criteria will highlight anything that needs improvement or redesign. Changes are often made to a design during manufacture. Pneumatic systems use energy that is stored in compressed air to do work, such as inflating a bal- loon to open a model monster's mouth. These effects can be achieved using syringes and plastic tubing.	Test and e and make c systems in
Children will learn that various methods can be used to support a framework. These include cross braces, guy ropes and diagonal struts.	Name and :
Frameworks can be built using lolly sticks, skewers and bamboo canes. Different mechanisms and systems can work together to perform a function. A strong and stable structure is necessary to support different mechanisms in a machine.	them safel
Children will learn that Pneumatic systems use energy that is stored in compressed air to do work, such as inflating a balloon to open a	Esculationalis
model monster's mouth. These effects can be achieved using syringes and plastic tubing. Pneumatic systems can be used to lift heavy loads, raise and lower platforms or soften a force by acting as a shock absorber.	Explain the range of pr as pneumat
Testing a product against the design criteria will highlight anything that needs improvement or redesign. Changes are often made to a	Test and e
design during manufacture. Materials should be cut and combined with precision. For example, pieces of fabric could be cut with sharp scissors and sewn together using a variety of stitching techniques. Design is an iterative process, meaning that once an initial prototype has been designed it is continually tested and improved until the final product is deployed. https://www.youtube.com/watch?	and make a
	Survey use
Children will learn that a focus group is a small group of people whose reactions and opinions about a product are taken and studied. Eval- uations can be made by asking product users a selection of questions to obtain data on how the product has met its design criteria.	
	used mainly in China and Japan. The design of products needs to take into account the culture of the target audience. For example, col- ours might mean very different things in different cultures. A pneumatic system uses air to exert a force. This force is used in pneumat- ic jacks to lift vehicles, in paint sprayers to force paint out at high speed, in jackhammers to break up pavements and in train and bus brakes. Children will test a product against the design criteria will highlight anything that needs improvement or redesign. Changes are often made to a design during manufacture. Pneumatic systems use energy that is stored in compressed air to do work, such as inflating a bal- loon to open a model monster's mouth. These effects can be achieved using syringes and plastic tubing. Children will learn that various methods can be used to support a framework. These include cross braces, guy ropes and diagonal struts. Frameworks can be built using lolly sticks, skewers and bamboo canes. Different mechanisms and systems can work together to perform a function. A strong and stable structure is necessary to support different mechanisms in a machine. Children will learn that Pneumatic systems use energy that is stored in compressed air to do work, such as inflating a balloon to open a model monster's mouth. These effects can be achieved using syringes and plastic tubing. Pneumatic systems can be used to lift heavy loads, raise and lower platforms or soften a force by acting as a shock absorber. Testing a product against the design criteria will highlight anything that needs improvement or redesign. Changes are often made to a design during manufacture. Materials should be cut and combined with precision. For example, pieces of fabric could be cut with sharp scissors and sewn together using a variety of stitching techniques. Design is an iterative process, meaning that once an initial prototype has been designed it is continually tested and improved until the final product is deployed. https://www.youtube.com/watch? Ch

	Themes							
Food					• To • To			
Innovation	Children will now learn c	hildren will now learn about how pneumatic powered machines work and design and create their own.						
Broadening horizons	Children will look at dif	ferent machinery used in f	arming which is used to help produce our food. T	hey will look in detail at pneumatic machines.				
Out	rcome	Character Traits	Stickability	wow				
To make a pneumatic f	arming machine	Articulate Resilient Curious	Recap key vocabulary and skills learnt	Display a number of farming materials and ask the children to discuss what they do				

Links Across the Curriculum

ny—sow, grow and farm

Disciplinary Knowledge / Skills

hanical systems in their products, such as pneumatics. Exthe design of a product has been influenced by the culsociety in which it was designed or made.

evaluate products against a detailed design specification adaptations as they develop the product. Use mechanical in their products, such as pneumatics.

d select increasingly appropriate tools for a task and use ely. Build a framework using a range of materials to suphanisms.

he functionality and purpose of safety features on a products. Use mechanical systems in their products, such atics.

evaluate products against a detailed design specification adaptations as they develop the product. Select and materials with precision.

sers in a range of focus groups and compare results.

Diversity in the Curriculum

look at farming machines from around the world

look closely at British farming and how British food is duced



summer Year 5 - Design and Technology - Architecture (Ground Breaking Greeks)

Curriculum Objectives		Voca	bulary		
 To learn about how architectural style and technology has de- veloped over time and then use this knowledge to design a build- ing with specific features. 	Architecture	The process of designer and constructing a building	classical	Relates to ancient Greece	
	CAD	Computer-aided design	culture	Beliefs and behaviours that are traditionally practiced by a group	
	influence	To affect or change something	Marble	Type of natural stone found on earth	
					Ľ

Lessons Sequence	Key Knowledge	
1.Can you study and analyse how architecture has changed throughout history?	Children will learn that culture is the language, inventions, ideas and art of a group of people. A society is all the people in a community or group. Culture affects the design of some products. For example, knives and forks are used in the western world, whereas chopsticks are used mainly in China and Japan. The design of products needs to take into account the culture of the target audience. For example, colours might mean very different things in different cultures. Many new designs and inventions influenced society. For example, labour-saving devices in the home reduced the amount of housework, which was traditionally done by women. This enabled them to have jobs.	Explain culture the soci
2.Can you iinvestigate and analyse Greek architecture?	Children will learn that the ancient Greeks developed the Classical form of architecture. They used columns to support roofs, which had three main orders; Doric, Ionic and Corinthian. Ancient Greek buildings were symmetrical and beautiful. Roofs had a triangular shaped part, called the pediment, and a wide horizontal part, usually decorated with a frieze, called the entablature. Greek buildings were usually made from limestone or marble.	Explain culture
3.Can you investigate and create different structures to find the strongest support framework?	Children will learn that various methods can be used to support a framework. These include cross braces, guy ropes and diagonal struts. Frameworks can be built using lolly sticks, skewers and bamboo canes. Support, stiffness and stability can be created by using triangular shapes to create strong frameworks, columns to support roofs and overlapping brickwork patterns.	Build a nisms.
4. Can you create a CAD of a school building, taking inspiration from the building you have stud- ied?	Children will learn that a pattern piece is a drawing or shape used to guide how to make something. There are many different computer- aided design packages for designing products. Computer-aided design (CAD) is the use of specialised computer software to design objects. CAD can help designers to create better quality, clearer designs and make changes easily. CAD designs can also be made into objects using 3-D printers.	Use pat sign a p
5. Can you design a school build- ing using junk modelling materi- als?	Children will learn that various methods can be used to support a framework. These include cross braces, guy ropes and diagonal struts. Frameworks can be built using lolly sticks, skewers and bamboo canes. Materials should be cut and combined with precision. For example, pieces of fabric could be cut with sharp scissors and sewn together using a variety of stitching techniques.	Build a nisms.
6. Can you evaluate your building against your CAD design ideas?	Children will evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.	Test an tion and

	Themes			
Food		•	-	Та
Broadening horizons	Children will explore the ancient Greek architecture more in-depth	•	-	Te
Innovation	Children will now look at how buildings are designed and the considerations that take place in order to make strong, sturdy and longstanding buildings.			

Outcome	Character Traits	Stickability	wow
To design a strong building	Ambitious Articulate Resilient Curious		Display different buildings from different countries and ask children to discuss why they think buildings are built differently in different countries e.g. hot, cold countries



Links Across the Curriculum

ry—Ground breaking Greeks

Disciplinary Knowledge / Skills

how the design of a product has been influenced by the or society in which it was designed or made. Describe ial influence of a significant designer or inventor.

how the design of a product has been influenced by the or society in which it was designed or made.

framework using a range of materials to support mecha-

ttern pieces and computer-aided design packages to deproduct.

framework using a range of materials to support mecha-Select and combine materials with precision.

nd evaluate products against a detailed design specificad make adaptations as they develop the product.

Diversity in the Curriculum

To explore Greek architecture

To explore buildings from different countries



Rushey Mead

Autumn Year 6 - Design and Technology - Food for Life- (Maafa)

Curriculum Objectives			Vocabulary					
				·				
 To learn about processed food and healthy food choices. They- plan and make meals as part of a healthy daily menu, and evalu- ate their completed products. 				recipe	provides information to prepare a dish, including ingredients, quantities and a method. They may also contain nutritional information.	Yeast	is a leavening agent that makes bread rise.	Geograph world
				Proving	means to leave bread dough, which contains yeast, to rise.	Kneading	is a technique used to make bread dough.	
				Manure	a mixture of animal's feces and bed- ding straw	Pest-control	Getting rid of different species that are considered harmful to humans and food	
				Hand-weeding	the act of removing wild plants from a place where they are not wanted	Greengrocers	a shop which sells fresh vegetables and fruit to the public.	
Lessons Seque	ence			Su	bstantive Knowledge / Key Kn	owledge		
1.What is a healthy life a healthy, balanced die	· ·	People's lives have been improved in countless ways due to new inventions and designs. For example, the Morrison shelter, designed by John Baker in 1941, was an indoor air- raid shelter used in over half a million homes during the Second World War. It saved the lives of many people caught in bombing raids. Products and inventions can be com- pared using a range of criteria, such as the impact on society, ease of use, appearance and value for money. There are different categories of processed foods. Ultra- processed foods have been through significant changes, have added ingredients and often a low nutritional value. A processed food is changed during preparation and in- cludes processes, such as cooking, freezing, pasteurising, or the addition of ingredients. Pros of processed foods include convenience and availability. Cons include a lack of nutrients and unhealthy ingredients.					Create a de Analyse how live	
product with a homemade version dients can usually be bought at supermarkets, but specialist shops may stock different items. Greengrocers sell fruit and vegetables, butchers sell meat, fishmongers sell				Create a de Follow a rec ingredients				
3.What are the benefi whole foods and the dif between whole foods ar	fferences	farmers use stock differ	crop rotation, animal and	plant manures, hand- sell fruit and vegetab	e is food that has been grown without the use of man-made fertilisers, pesticides, growth regulators or animal feed additives. Organic plant manures, hand-weeding and biological pest control. Ingredients can usually be bought at supermarkets, but specialist shops may ell fruit and vegetables, butchers sell meat, fishmongers sell fresh fish and delicatessens usually sell some unusual prepared foods, as ation.			
4. Can you plan a health menu for an 11-year-old			learn that eating a balan art of a balanced diet.	ced diet is a positive lifestyle choice that should be sustained over time. Food that is high in fat, salt or sugar can still be eaten occa-				Plan a health diet.
5. In what ways is your meal bal- sell meat, fishmongers sell fresh fish				an usually be bought at supermarkets, but specialist shops may stock different items. Greengrocers sell fruit and vegetables, butchers and delicatessens usually sell some unusual prepared foods, as well as cold meats and cheeses. Techniques include preparation tech- g, kneading and mashing, and cooking techniques, such as boiling, roasting, frying and baking.				Follow a rec ingredients
6. What modifications make to your recipe?	would you	Children will uct while it's	learn that design is an it s being manufactured, and	erative process, mean d explaining these evo	ing alterations and improvements are made con luations to others, can help to refine it.	tinually throughout th	e manufacturing process. Evaluating a prod-	Demonstrat themselves
				т	hemes			
	Children		about the difference	botwoon boolth	foods and processed foods			Children
Food Children will now learn about the difference between healthy foods and processed foods					Children around th			
Broadening horizons	Children will now learn about traditional African dishes is							
Innovation								
Outo	come		Character Tr	aits	Stickability		WOW	

Outcome	Character Traits	Stickability	wow
To plan a healthy day's menu for an 11-year old	Ambitious Articulate Resilient Curious	Recap key vocabulary and skills learnt	Show flash cards of different meals. Children to discuss if they are healthy or not and why





Links Across the Curriculum

y—children to look at different diets from around the

Disciplinary Knowledge / Skills

tailed comparative report about two or more products or inventions. an invention or product has significantly changed or improved people's

tailed comparative report about two or more products or inventions. ipe that requires a variety of techniques and source the necessary independently.

organic produce is grown. Follow a recipe that requires a variety of and source the necessary ingredients independently.

hy daily diet, justifying why each meal contributes towards a balanced

ipe that requires a variety of techniques and source the necessary independently.

te modifications made to a product as a result of ongoing evaluation by and to others

Diversity in the Curriculum

to explore different diets of 11-year olds and meals from he world





totype

spring Year 6 - Design and Technology - Engineer (Frozen kingdoms)

Curriculum Objectives		Voco	ıbulary			
 To learn about remarkable engineers and significant bridges, learning to identify features, such as beams, arches and truss- es. They complete a bridge-building engineering challenge to 	engineer	a designer or builder of engines and structures	arches	a usually curved part of a structure that is over an opening and serves as a support	Ć	Geograpł
create a bridge prototype.	bridge	a structure built over something (as a river or a railroad) so people can cross	trusses	A framework of metal or wood bars con- nects the two ends of the bridge. These bars fit together in triangular shapes.		
	beams	a long heavy piece of timber or metal used especially as a main horizontal sup- port of a building or ship	prototype	A simple model that lets you test out your idea		

Lessons Sequence	Substantive Knowledge / Key Knowledge				
1. What is a bridge? Can you name any famous engineer—bridge builders?	Children will learn about how people's lives have been improved in countless ways due to new inventions and designs. For example, the Morrison shelter, designed by John Baker in 1941, was an indoor air-raid shelter used in over half a million homes during the Second World War. It saved the lives of many people caught in bombing raids. The significance of a designer or inventor can be measured in various ways. Their work may benefit society in health, transport, communication, education, the built environment or technology. It may enhance culture in different areas, such as fashion, ceramics or com-	Analyse how people's live ite designer			
2. Can you describe the different features of bridges that make them strong?	er games. Bridge structures have changed over time with innovations in design and materials. Significant bridges include the Menai Bridge, Clifton pension Bridge and Forth Bridge. Children should also explore bridge from other countries and look at how they have advanced the life of people in er societies.				
3. How can you make a strong paper bridge?	Children will learn that products and inventions can be compared using a range of criteria, such as the impact on society, ease of use, appearance and value for money. The four main bridge types are the beam bridge, arch bridge, truss bridge and suspension bridge. They each spread forces in different ways to remain strong and stable.	Select the r structures, als for a tas			
	Children will learn that strength can be added to a framework by using multiple layers. For example, corrugated cardboard can be placed with corruga-				
4. Can you use a strong bridge using triangles and different materials?	tions running alternately vertically and horizontally. Triangular shapes can be used instead of square shapes because they are more rigid. Frameworks can be further strengthened by adding an outer cover. It is important to understand the characteristics of different materials to select the most appropriate material for a purpose. This might include flexibility, waterproofing, texture, colour, cost and availability.	Select the r structures, als for a tas			
5. Can you design a bridge prototype?	Children will learn that triangles are a strong shape used by engineers to add strength to a structure. When a force is applied to a triangle, it is distrib- uted down each side, making triangles difficult to distort or collapse				
	area down each side, making mangles all fican to distort or condese	Develop des			
6. Can you make a bridge prototype?	Children will learn that criteria should cover the intended use of the product, age range targeted and final appearance. Ideas can be communicated in a range of ways, including through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided	for purpose			
	design.	Choose the			
7 Can you avaluate your bridge?	Children will learn that it is important to understand the characteristics of different materials to select the most appropriate material for a purpose. This might include flexibility, waterproofing, texture, colour, cost and availability.	working cha			
7. Can you evaluate your bridge?	Children will learn that design is an iterative process, meaning alterations and improvements are made continually throughout the manufacturing process. Evaluating a product while it's being manufactured, and explaining these evaluations to others, can help to refine it.	Demonstrat ation by the			

Themes											
Food							•	chil disc			
Innovation	Children will now advance their knowledge on how to strengthen, stiffen and reinforce more complex structures. They will learn about how structures can be strengthened by adding further layers.										
Broadening horizons	Children will explore how bridge structures have improved the lives of different people around the world. Children will learn about more significant designer e.g. John Baker (Morrison shelter)										
Outcome		Character Traits		Stickability	WOW						
Children will create and evaluate a bridge pro-		Ambitious	Articulate	Recap key vocabulary and skills learnt	- children to be shown many bridges from around the world—discuss how they have improved lives]					

and societies

Resilient

Curious





Links Across the Curriculum

phy—frozen kingdoms

Disciplinary Knowledge / Skills

low an invention or product has significantly changed or improved ives. Present a detailed account of the significance of a favourner or inventor.

detailed comparative report about two or more products or in-

e most appropriate materials and frameworks for different s, explaining what makes them strong. Choose the best materitask, showing an understanding of their working characteristics.

e most appropriate materials and frameworks for different s, explaining what makes them strong. Choose the best materitask, showing an understanding of their working characteristics.

lesign criteria for a functional and appealing product that is fit se, communicating ideas clearly in a range of ways.

he best materials for a task, showing an understanding of their haracteristics.

rate modifications made to a product as a result of ongoing evaluhemselves and to others.

Diversity in the Curriculum

nildren to be shown many bridges from around the world scuss how they have improved lives and societies



Summer Year 6 - Design and Technology - Make do and mend campaign (Britain at war)

Curriculum Objectives			Vocabulary								
• To learn about a range of simple sewing stitches, including ways			Deconst	struct	To take apart	Repurpose	Adapt for a different use	History-			
of recycling and repurposing old clothes and materials.			campa		an organised course of action to achieve positive change.	Water proof	Something that keeps water out	PSHE -			
			Synthe	hetic	Made by humans	Hem	A border of a cloth made by folding back an edge and sewing it down.	ronc –			
	Running s	stitch	a simple needlework stitch consisting of a line of small even stitches which run back and forth through the cloth	sewing	Using a needle and thread to attach pieces of fabric together						
Lessons Sequence				Substantive Knowledge / Key Knowledge							
and mend campaign influenced fami- ly life, fashion and the war effort in general? it the amount of labour and m				s lives have been improved in countless ways due to new inventions and designs. For example, the Morrison er in 1941, was an indoor air-raid shelter used in over half a million homes during the Second World War. ple caught in bombing raids. In 1941, the British government introduced clothes rationing. This was to lim- terials used in clothes production, so that it could be used to support the greater war effort. Make Do by the Ministry of Information to encourage people to recycle and repurpose their old clothes rather than							
clothing and investigate how they're ment c		Children will learn that precision is important in producing a polished, finished product. Correct selection of tools and careful measure- nent can ensure the parts fit together correctly. Deconstructing garments identifies how they were made, the materials used and their properties.									
		Se Idren will learn that precision is important in producing a polished, finished product. Correct selection of tools and careful measure- Int can ensure the parts fit together correctly. Hand stitches include running stitch, blanket stitch and whip stitch.									
clothing? for a		Children will learn that it is important to understand the characteristics of different materials to select the most appropriate material for a purpose. This might include flexibility, waterproofing, texture, colour, cost and availability. Pinning with dressmaker pins and tack- ing with quick, temporary stitches holds fabric together in preparation for and during sewing.									
			l learn that pinning with dressmaker pins and tacking with quick, temporary stitches holds fabric together in preparation for sewing. Fastenings hold a piece of clothing together. Types of fastenings include zips, press studs, Velcro and buttons.								
		will learn that products and inventions can be compared using a range of criteria, such as the impact on society, ease of use, a e and value for money.						Create a d ventions.			
				The	emes]			
Food		•									
Broadening horizons	Children will learn abou	hildren will learn about how British people repurposed clothing during WW2 and the benefits of this									
Innovation	Children will now be introduced to further stitches that they could use in their sewing work. Children to learn about recycling fabrics.										
Out	aits		Stickability		WOW						
product			iculate Re vious	ecap key v	vocabulary and skills learnt		en with torn clothes and clothes nd ask them to discuss how they n	1			



Links Across the Curriculum

—Britain at war

-fast fashion—problem of today

Disciplinary Knowledge / Skills

ow an invention or product has significantly changed or improved ives.

propriate tools for a task and use them safely and precisely.

propriate tools for a task and use them safely and precisely.

ne best materials for a task, showing an understanding of their haracteristics. Pin and tack fabrics in preparation for sewing complex pattern work.

ck fabrics in preparation for sewing and more complex pattern different methods of fastening for function and decoration, press studs, Velcro and buttons.

detailed comparative report about two or more products or in-

Diversity in the Curriculum

arning about WW2

