	Autumn 1 Au	tumn 2	Spring 1	Spring 2/Summer 1	
Торіс	World War Two		Mountains	South America-Brazil	
National Curriculum Learning Intentions	Design - use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular indivi- through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. Make - select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately; • select construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. Evaluate - investigate and analyse a range of existing products; • evaluate their ideas and products against their own design criteria and consider the views of other and technology have helped shape the world Technical Knowledge - apply their understanding of how to strengthen, stiffen and reinforce more complex structures; • understand and use mechanical systems in tu understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]; • apply their understanding Nutrition - understand and apply the principles of a healthy and varied diet; • prepare and cook a variety of predominantly savoury dishes using a range of cooking te		from and use a wider to improve their wor heir products [for exa of computing to progr		
DT Units	ingredients are grown, reared, caught and processed.	oning	Automata Animala /	Printing Block	Eolt D
	 Super Seasonal Cooking Rati carry out research, using surveys, interviews, questionnaire 		Automate Animals /F • work confidently within a range of contexts, such as		• describe the purpose
Design	 carry our research, using surveys, interviews, questionnance resources identify the needs, wants, preferences and values of particle groups• generate innovative ideas, drawing on research Design circuits incorporating buzzers, switches, bulbs and m 	enterprise, industry and the wider environment • explain how particular parts of their products work • model their ideas using prototypes and pattern pieces • use annotated sketches, cross-sectional drawings and exploded diagrams to develop and communicate their ideas • use computer-aided design to develop and communicate their ideas		 describe the purpose indicate the design share and clarify id use annotated sket develop and commute make design decisi cost develop a simple 	
Make	 use a wider range of materials and components than KS1, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components use a wider range of materials and components than KS1, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components select materials and components suitable for the task explain their choice of materials and components according to functional properties and aesthetic qualities produce appropriate lists of tools, equipment and materials that they need accurately assemble, join and combine materials and components use techniques that involve a number of steps accurately measure, mark out, cut and shape materials and components (ART) accurately apply a range of finishing techniques, including those from art and design (ART) 		 demonstrate resourt select tools and equivience explain their choice they will be using accurately measure accurately apply and design 		
Evaluate	about inventors, designers, engineers, chefs and manufact developed ground-breaking products (HISTORY)		 identify the strengths and areas for development in the consider the views of others, including intended user how well products have been designed and made why materials have been chosen what methods of construction have been used how well products work and how well products achie how well products meet user needs and wants how much products cost to make how innovative products are how sustainable the materials in products are what impact products have beyond their intended put 	s, to improve their work ve their purposes	 identify the strength consider the views how well products h why materials have what methods of co how well products how well products how well products how well products how much products how much products how innovative products how sustainable the what impact products
Technical Knowledge	 that a recipe can be adapted by adding or substituting one and how this was necessary during the WW2. how more complex electrical circuits and components can b functional products 	or more ingredients	how mechanical systems such as cams or pulleys or how to reinforce and strengthen a 3D framework how to use learning from mathematics to help desigr that materials can be combined and mixed to create that mechanical and electrical systems have an input the correct technical vocabulary for the projects they	gears create movement and make products that work more useful characteristics t, process and output	 that a 3D textiles pr that materials have how to use learning
Cooking and Nutrition	 how to prepare and cook a variety of predominantly savour hygienically including, where appropriate, the use of a heat s how to use a range of techniques such as peeling, choppin mixing, spreading, kneading and baking that recipes can be adapted to change the appearance, taste and based on the availability of ingredients • that different for different substances – nutrients, water and fibre – that are ne • that seasons may affect the food available • how food is pro- ingredients that can be eaten or used in cooking 	y dishes safely and source g, slicing, grating, e, texture and aroma od and drink contain eeded for health	 how to prepare and cook a variety of predominantly sincluding, where appropriate, the use of a heat source how to use a range of techniques such as peeling, cl spreading, kneading and baking that recipes can be adapted to change the appearance food and drink contain different substances – nutrients that seasons may affect the food available • how food be eaten or used in cooking 	savoury dishes safely and hygienically hopping, slicing, grating, mixing, e, taste, texture and aroma • that different s, water and fibre – needed for health	
Key Skills	 Understand what seasonality means. Name some foods which are grown, reared, caught and properties of the seasonal recipes. Prepare a range of ingredients hygienically. Prepare, assemble/cook ingredients. Know when different fruit and vegetables are in season in the Explain where and how a variety of ingredients are grown, processed. Generate ygia range of ideas for balanced seasonal recipe Prepare ingredients technically and understand how to store and fish correctly. Use a wide range of preparation and cooking technique 	ocessed. e United Kingdom. reared, caught and s. re and handle meat	 Generate, as a group, one viable idea after discussion Cut materials accurately and safely by selecting appreciate a simple cam mechanism as part of the descent of the	ropriate tools. esign. ata animal in a design that they have their product. ade by the cam in the design of their safely to the nearest cm using a wider evice, selecting materials to make a device.	 Develop their own of Use backstitch. Create simple patte Use at least two dif Create an accurate Measure and mark

e: DESIGN TECHNOLOGY Year 6

Summer 1 and 2

Britain Since 1066-Focus on Battles

generate, develop, model and communicate their ideas

ler range of materials and components, including

vork; • understand how key events and individuals in design

example, gears, pulleys, cams, levers and linkages]; • ogram, monitor and control their products. Cooking and stand seasonality, and know where and how a variety of

Phone Cases Felt Bayeux tapestry

pose of their products

gn features of their products that will appeal to intended users i ideas through discussion

ketches, cross-sectional drawings and exploded diagrams to nunicate their ideas

cisions, taking account of constraints such as time, resources and nple design specification to guide their thinking

ourcefulness when tackling practical problems

equipment suitable for the task

ice of tools and equipment in relation to the skills and techniques

ure, mark out, cut and shape materials and components a range of finishing techniques, including those from art and

gths and areas for development in their ideas and products ws of others, including intended users, to improve their work ts have been designed and made

ave been chosen

f construction have been used

ts work and how well products achieve their purposes

ts meet user needs and wants

icts cost to make

roducts are

the materials in products are

ducts have beyond their intended purpose

s product can be made from a combination of fabric shapes

ve both functional properties and aesthetic qualities

ing from science to help design and make products that work

n design criteria.

tterns.Aim the design criteria at a target market. different types of stitches. ate paper template. rk a sewing and cutting line.

Learning Intentions	To explain what seasonality means and know when different fruit and vegetables are in season in the United Kingdom and compare with other countries To explain where, when and how a variety of ingredients are reared, caught and processed. To taste and evaluate seasonal foods and recognise that sometimes we need to try a new food a few times to find out if we like it. To explain the importance of protein as a proportion of a healthy varied diet. To work as a group to generate, evaluate and refine recipe ideas. To take feedback and improve my designs. To explain how to correctly store and handle meat and fish. To prepare, cook and evaluate a healthy seasonal meal.	t.To research ideas about different animals to inform my design. To explain how simple cam mechanisms work. To research ideas about different animals to inform my design. To select materials according to their functional properties. To use research and develop design criteria to inform my design. To build a framework, accurately using a wider range of tools and equipment. To evaluate my product. To understand and use a mechanical system.	To write a design cr To generate a range To make a paper te To practise using di final felt phone case To organise my idea To select decorative properties and aest To evaluate my proc
Resources	Camera, A selection of fruit and vegetables from different seasons. Asparagus, kale, spinach, radishes, rocket, Jersey Royal new potatoes and spring onions, salmon, prawns and lentils, chopping boards. Kitchen equipment.	Dowel, corrugated plastic, card, foam, cotton reels, pin, hammer, vices, bench hooks, hacksaw, split pins, double sided tape, plastic tubing	Felt, egs of mobile p fabric shears, needl and eye, press stud fabric glue. selection
Vocabulary	Seasonality, spring, summer, autumn, winter, imported, ripe, sustainable.Seasonal, reared, caught, processed. texture, Balanced, protein, eatwell plate. Design criteria, specification, annotated diagram, generate, refine.Blanch, fry, grill, griddle, chop, slice, peel, grate	Endangered, vulnerable, appearance, habitat, research, design brief. Cam, follower, components, mechanical systems, rotary, linear, convert, motion. guide, follower, mechanism, components, mechanical systems, rotary, linear, convert, movement, dwell, snail, egg shaped, eccentric, ellipse, hexagon, round, off centre, components, framework, construction, finish, join, cut, saw, square section wood, hacksaw, vice, corner joints, measure, accurately, smooth, finish, notch. aesthetic, components, mount, framework, finish, join, cut, saw, prototype, evaluate, peer, feedback, off centre, axle, shaft.	.Design criteria, aes process. Pattern, te centimetre. Prototyp Fastenings, decorat

criteria for a mobile phone case.

- nge of design ideas and clearly communicate my final design. template.
- different types of stitches and choose the best one to use on my ise.
- deas in a step by step plan. tive techniques and fastenings according to their functional
- sthetic qualities.
- roduct

le phone cases,1 cm squared paper, scissors, rulers, sharp pencils, edles, threads, rectangles of scrap fabric, egs of fastenings: hook uds, buttons, ribbon, Velcro, press studs, buttons, ribbon, felt, tion of different fabrics and materials for decorating.

aesthetics, functional, specification. Innovative, annotate, design , template, precisely, accurately, scale, measurements, millimetre, orype, whipstitch, backstitch, running stitch, blanket stitch. Plan, oration, felt, design criteria, evaluate.