Perryfields Primary PRU Curriculum Overview

Design and Technology

Due to us having mixed age classes we operate a two year cycle with our curriculum. This ensures that over time all the pupils get a full entitlement. We use the Kapow scheme of work for our DT curriculum as well as enriching it with work linked to other subjects.

The following key drivers underpin our learning and are developed through the school. Our three key drivers for our school curriculum are:

- 1. **Aspirations** we want our pupils to **aspire** to be the best version of themselves. We have incredibly **high expectations** and are passionate about ensuring that every pupil is exposed to a range of possibilities to broaden their **aspirations**, **build their confidence** and deepen their **knowledge** of the world around them.
- 2. Communication to help our pupils to develop the knowledge and skills necessary to communicate their thoughts, ideas and feelings successfully across the curriculum through a variety of outlets this includes through the Arts, Sports and Science, Technology, Engineering and Mechanics (STEM).
- 3. Learning Powers we aim to develop our pupils' learning habits in order to prepare them for a lifetime of learning. Developing our pupils' learning powers is central to everything we do; it is not an addition to our curriculum but underpins the whole learning process.











Years 1 and 2: Cycle 1

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Theme	Food: Fruit and	Mechanisms:	Structures:	Textiles:	Mechanisms:	
	vegetables	Making a moving	Constructing a	Puppets	Wheels and	
		story book	windmill		axles	
Objectives	Name a number	Understand that	Know what a	Remember that	Identify what	
	of fruits and	sliders are	windmill is	different	mechanism	
	vegetables	mechanisms	I can describe the	techniques may	makes a toy or	
	I know how to	I know that sliders	purpose of	be used to join	vehicle roll	
	determine if	can make things	structures	fabrics for	forwards	
	something is a	move	I understand the	different purposes	I know that in	
	fruit	I can create	importance of	I know how to join	order for a wheel	
	I understand that	moving models	clear design	fabric by pinning,	to move it must be	
	some foods we	that use sliders	criteria	stapling or	attached to an	
	call vegetables	I can use the	I understand what	glueing	axle	
	are actually fruits	words: up, down,	a net is		I can draw and	
		left, right, vertical		Design a puppet	label a diagram of	
	Remember how to	and horizontal to	Follow	I can build my	an axle, wheel	
	determine if a	describe	instructions to cut	design on a	and axle holder	
	food is a fruit or a	movement	and assemble the	template		
	vegetable roots or		supporting		Know that a wheel	
	stem. Vegetables	Design three	structure of my	Join fabrics	needs an axle in	
	do not contain any	pages of my	windmill	together	order to move	
	seeds.	moving storybook	I know that that	I can align two	I can fix a design	
	I know that fruits	by: drawing	the shape of	pieces of fabric	so that the wheel	
	and vegetables	background	materials can be	I know how to use	can move	
	grow in one of	pictures, drawing	changed to	a template	I can use	
	three places:	the moving parts,	improve the		appropriate	
	on trees or vines	deciding whether I	strength and	To embellish my	vocabulary to	
	above the ground	will use a side-to-	stiffness of	design using	describe which	
	below the ground	side slider or an	structures	joining methods	parts are moving	
		up-and-down	I know that		or not	
	Suggest what	slider on each	cylinders are a	Evaluate mine		
	fruits and/or	page labelling the	strong type of	and others' work		

vegetables are in a drink I can taste fruits and vegetables and describe their: Appearance, feel, smell and taste I can make a choice as to what smoothie I will make and why Know how to prepare fruit and vegetables I can use a knife to cut safely I know how to use a blender I can make a smoothie	movement of each type of slider Make my moving picture by: Drawing my background Drawing and cutting my moving parts Making sliders for my moving parts Putting all my parts together to create my moving picture Review the success of my product by testing it I can evaluate my product against the design criteria I can consider what I have learnt from making my moving story book	structure that are often used for windmills and lighthouses I understand what stable means and can ensure my structure has this property Cut and assemble my turbine correctly I understand that windmill turbines use wind to turn and make the machines inside work I know that axles are used in structures and mechanisms to make parts turn in a circle I can attach my turbine to the axle and attach them to the structure of my windmill I can test that my turbine turns in the structure and alter the parts if it	Design a moving vehicle I can label my design using appropriate vocabulary Make a wheel and axle mechanism I can evaluate my design to make it even better	
		alter the parts if it doesn't		

			Evaluate my windmill according to the design criteria I can test whether my structure is strong and stable and reinforce it if necessary I can test whether my turbine turns in the structure and alter the parts if it doesn't I can test whether my turbine turns freely in the wind/when blown on			
Ongoing Objectives	Understand where food comes from Explore and evaluate a range of existing products Use the basic principles of a healthy and varied diet	Explore and evaluate a range of existing products Evaluate their ideas against design criteria	Build structures, exploring how they can be made stronger, stiffer and more stable Explore and use mechanisms [for example, levers, sliders, wheels and axles] in their products	Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately Design purposeful, functional, appealing	Explore and use mechanisms in their product	

		1	T	1	1
Un	nderstand the		products for		
De	esign, Make and		themselves or		
	aluate process		other users based		
- "			on design criteria.		
			on design chiella.		
			Generate,		
			develop, model		
			and communicate		
			their ideas		
			through talking,		
			drawing,		
			templates, mock-		
			ups and, where		
			appropriate,		
			information and		
			communication		
			technology		
			looniiology		
			Select from and		
			use a wide range		
			of materials and		
			components,		
			including		
			construction		
			materials, textiles		
			and ingredients,		
			according to their		
			characteristics		
Enrichment					
Significant					
Study					
	<u>L</u>				

Years 1 and 2: Cycle 2

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Theme	Mechanisms:	Food: A	Mechanisms:	Structures: Baby	Textiles:	
	Fairground	balanced diet	Making a	bear's chair	Pouches	
	wheels		moving monster			
Objectives	Explore wheel	Know what makes	Understand that	Identify natural	Sew a running	
	mechanisms and	a balanced diet	mechanisms are	and man-made	stitch	
	design a wheel		a collection of	structures	I can use neat and	
		Remember what	moving parts that	I understand what	evenly spaced	
	Understand the	foods fall into	work together in a	is meant by	stitches to join	
	properties of	what food groups	machine	stability and can	fabric	
	different materials		I know that there	identify when a		
	I can	Know how to	is always an input	structure is more	Remember how to	
	communicate my	experience food	and output in a	or less stable	use a template	
	ideas to someone	through touch and	mechanism	than another	I can cut fabric	
	else	smell	I can identify	I know that	neatly	
	I can select		mechanisms in	shapes and	I can pin fabric	
	appropriate	I can consider and	everyday objects	structures with	accurately	
	materials for my	review food	I understand that	wide, flat bases or	I can design a	
	wheel	combinations	a lever is	legs are the most	pouch	
			something that	stable		
	Build a stable	I know that the	turns on a pivot		To join fabrics	
	structure	most ideal	I understand that	To explore	using a running	
	I can test	ingredient	a linkage is a	strength in	stitch	
	elements of my	combinations for	system of levers	different	Design	
	design	my wrap will	that are	structures	decorations for my	
	I can adapt my	contain foods	connected by	To understand	product	
	design as	from more than	pivots	that the shape of		
	necessary	one food group	I can help devise	the structure	Join items using	
	I know how to		whole-class	affects its	fabric glue or	
	make the wheel	To design a	design criteria for	strength	stitching	
	rotate	healthy wrap	what our moving		I can decorate	
			monster should	To make a	fabric using	
			do	structure	different items	

	T =			T -	1
Evaluate a wh		Know how to	according to	I can evaluate my	
mechanism ar		make linkages by	design criteria	own designs	
adapt as	work well together	connecting levers	Remember that		
necessary	I can design three	and pivots	chairs are		
I know how to	possible wraps	I know that	structures and		
ensure that my	y based on these	materials can be	need to be strong,		
pod stays upri	ght combinations	selected	stiff and stable		
whilst being	I can choose one	according to their	I know how to		
rotated around	d a of these to make	characteristics	create joints and		
fixed point	as my 'Final	I can design and	structures from		
'	Design'	make the features	paper/card and		
	I know how to	of my monster	tape		
	slice food safely	I can evaluate			
	using the bridge	how functional my	Produce a		
	or claw grip	monster is and	finished structure		
	or oldin gillp	whether it meets	and evaluate its		
	Remember how to	the Design	strength, stiffness		
	prepare food	Criteria	and stability		
	safely	Understand that	and stability		
	Sarciy	linkages use			
	I know how to	levers and pivots			
	review my design	to create motion			
	review my design	I can think of two			
		of my own points to add to the			
		class Design			
		Criteria			
		I can draw two			
		moving monster			
		designs that meet			
		all points of my			
		Design Criteria			
		My design			
		includes the			
		linkage I will use			

			to make my monster move			
Ongoing Objectives	Evaluate their own ideas and products against a design criteria Build structures exploring how they can be made stronger, stiffer, and more stable Explore and use mechanisms in their products Select from and use a range of tools and equipment to perform practical tasks	Understand where food comes from Use the basic principles of a healthy and varied diet to prepare dishes Explore and evaluate a range of existing products Design purposeful, functional, appealing products for themselves and other users based on design criteria Evaluate their ideas and products against design criteria	Explore and evaluate a range of existing products Explore and use mechanisms [for example, levers, sliders, wheels and axles] in their products Design purposeful, functional, appealing products for themselves and other users based on design criteria Generate, develop, model and communicate their ideas through talking and drawing, templates, mockups and, where appropriate, information and	Explore and evaluate a range of existing products Evaluate their ideas and products against design criteria Build structures, exploring how they can be made stronger, stiffer and more stable Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	Select from and use a range of tools and equipment to perform practical tasks Design purposeful, functional, appealing products for themselves and other users Select from and use a wide range of materials and components, including construction materials, textiles and ingredients according to their characteristics Evaluate their ideas and products against design criteria	

	communication technology
	Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics
	Evaluate their ideas and products against design criteria
Enrichment	
Significant Study	

Years 3 and 4: Cycle 1

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Theme	Textiles:		Electrical		Food: Eating	
-	Cushions		Systems:		Seasonally	
			Electric Poster			
Objectives	To learn how to		To name		Know that not all	
-	sew cross-stitch		examples of and		fruits and	
	and appliqué		understand the		vegetables can be	
	reflect on		purpose of		grown in the UK	
	techniques used		information			
			design.			

To design a	To describe or	Know that each
product and its	explain the	country has its
template	importance of	own climate
cut fabric	information	Understand that
accurately	design.	these climates
		enable different
To follow design	To research and	fruits and
criteria and	select a topic to	vegetables to
decorate fabric	inform my design	grow
using appliqué	ideas	Consider hygiene
and cross stitch	To write a	when preparing
	paragraph about	food
To assemble the	a chosen topic	Use cooking
cushion by: using	To sketch initial	equipment safely
stitches to join	ideas for an	
fabrics, leaving	electric poster	Know that
space for a seam	that meets design	imported food will
and	criteria	have travelled
understanding		from far away and
why some	To review initial	has an impact on
products are	ideas against the	the environment
turned inside out	design criteria	Know that
after sewing	and	vegetables and
	provide/respond	fruit grow in
	to peer feedback	certain seasons
	To develop an	and that in the UK
	initial idea into a	we often import
	final design	food from other
	To evaluate	countries when it
	against the	is not in season
	design criteria	
		Know what foods
	To mount the final	are currently in
	design	season

		To build a simple circuit that includes a bulb To test and evaluate the electric display board To name and identify simple circuit components (bulb, battery and wires)	Be aware that each fruit and vegetable gives us nutritional benefits Design a filo tart using seasonal vegetables Describe the filo tart and the benefits of its ingredients To safely follow a recipe including preparing a kitchen to cook in Know the basic rules of food contamination
Ongoing Objectives	Select from and use a range of tools and equipment to perform practical tasks Design purposeful, functional, appealing products for	Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular	Understand and apply the principles of a healthy and varied diet Prepare and cook a variety of predominantly savoury dishes using a range of

themselves and	individuals or	cooking	
other users based	groups	techniques	
on design criteria			
	Evaluate,	Understand	
	investigate and	seasonality, and	
	analyse a range	know where and	
	of existing	how a variety of	
	products.	ingredients are	
	i l	grown, reared,	
	Generate,	caught and	
	develop, model	processed	
	and communicate	i i	
	their ideas		
	through		
	discussion,		
	annotated		
	sketches, cross-		
	sectional and		
	exploded		
	diagrams,		
	prototypes,		
	pattern pieces		
	and computer-		
	aided design		
	Evaluate ideas		
	and products		
	against their own		
	design criteria		
	and consider the		
	views of others to		
	improve their		
	work		

	To understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]		
Enrichment			
Significant Study			

Years 3 and 4: Cycle 2

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Theme	Food: Following	Digital World:	Structures:		Mechanical	
	a Recipe	Electronic	Constructing a		Systems:	
		Charm	Castle		Pneumatic Toys	
Objectives	Evaluate a	Identify some key	To recognise how		To know that	
	product and	product	multiple shapes		mechanisms are a	
	consider:	developments that	(2D and 3D) are		system of parts	
	-taste, smell,	occurred as a	combined to form		that work together	
	texture,	result of the digital	a strong and		to create motion	
	appearance,	revolution	stable structure		To know that a	
	packaging, target	To analyse and			pneumatic system	
	audience	evaluate an	Know the features		can be and are	
		existing product	of a castle		used in a range of	
	Follow a recipe to	To problem solve	Add design points		everyday objects	
	make a biscuit	by suggesting	to the Design		To know that a	
		potential features	Specification to		pneumatic system	
	Know how to cook food safely –	on the Micro: bit	appeal to the		can force air over	

following basic	and justifying	person/purpose of	a distance to	
hygiene rules	ideas	the castle	create movement	
		To draw the		
Cook to a recipe	Write a program	design of my	To develop design	
and adapt it to	to control (button	castle using 2D	criteria from a	
create a new	press) and/or	shapes, labelling:	design brief to	
biscuit prototype	monitor (sense	- 3D features	make a pneumatic	
	light) to initiate a	- materials	toy	
Evaluate and	flashing LED	- colours	To generate	
compare a range	algorithm.		suitable ideas	
of biscuit		To construct 3D	using thumbnail	
prototype	Understand what	nets	sketches and	
	a loop is in		exploded	
Work as a group	programming	Construct the	diagrams	
to design a biscuit		castle to meet the	To know that	
within a budget	Explain the basic	requirements of	there are three	
-Consider biscuits	functionality of an	the brief by:	different types of	
we have tasted	eCharm program	-making neat 3D	pneumatic	
and the		shapes using nets	systems that can	
successes of the	Identify the key	-stacking shapes	be used to design	
prototypes we	features of a	and recyclable	a toy and that	
have made	technology pouch	materials to make	recycled	
-Complete a		the structures of	household objects	
budget to ensure	Develop design	my castle	can be used to	
that spend is	ideas for a	-creating a castle	make it	
within the limit	technology pouch	base to secure	To know that	
-Make decisions		structures to	different types of	
as part of a team	To use a template	-adorning the	drawings are used	
to finalise the	when cutting and	castle with	in design to	
recipe	assembling the	facades and other	explain ideas	
- Create branding	pouch	decorative	clearly	
for the final		features		
product	To design a	-evaluate own	To create a	
	display badge	and other's work	pneumatic system	
	and/or stand			

T			
To make a biscuit	9		for a desired
that meets a given			motion
design brief	design) software		To build secure
	for an eCharm		housing for a
	product		pneumatic system
	Draw and		To know that
	manipulate 2D		syringes and
	shapes, using		balloons can be
	computer-aided		used to create
	design, to		different types of
	produce a point of		pneumatic
	sale badge		systems
	To understand		To know how to
	what is meant by		use these
	'point of sale		components to
	display'		make a functional
	,		and appealing
	Follow a list of		pneumatic toy
	design		
	requirements		To test and
	Toqui omonio		finalise ideas
			against design
			criteria
			Remember that
			materials are
			selected due to
			their functional
			and aesthetic
			characteristics
			To know how to
			manipulate
			materials to create
			different effects by
			cutting, creasing,

				folding, weaving, etc	
Ongoing	Use research and	Use research and	Select from and	Use research and	
Objectives	develop design	develop design	use a range of	develop design	
•	criteria to inform	criteria to inform	tools and	criteria to inform	
	the design of	the design of	equipment to	the design of	
	innovative,	innovative,	perform practical	innovative,	
	functional,	functional,	tasks [for	functional,	
	appealing	appealing	example, cutting,	appealing	
	products that are	products that are	shaping, joining	products that are	
	fit for purpose,	fit for purpose,	and finishing]	fit for purpose,	
	aimed at	aimed at		aimed at particular	
	particular	particular	Select from and	individuals or	
	individuals or	individuals or	use a wide range	groups	
	groups	groups	of materials and		
			components,	Generate,	
	Generate,	Understand how	including	develop, model	
	develop, model	key events and	construction	and communicate	
	and communicate	individuals in	materials, textiles	their ideas	
	their ideas	design and	and ingredients	through	
	through	technology have	according to their	discussion,	
	discussion,	helped shape the	characteristics	annotated	
	annotated	world		sketches, cross-	
	sketches, cross-		Use research and	sectional and	
	sectional and	Apply their	develop design	exploded	
	exploded	understanding of	criteria to inform	diagrams,	
	diagrams,	computing to	the design of	prototypes,	
	prototypes,	program, monitor	innovative,	pattern pieces and	
	pattern pieces	and control their	functional,	computer-aided	
	and computer-	products	appealing	design	
	aided design	Use research and	products that are		
		develop design	fit for purpose,	Understand and	
		criteria to inform	aimed at	use mechanical	
		the design of	particular	systems in their	

Pupils should be taught to: -Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately -Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities - Investigate and analyse a range of existing products Cooking and

Cooking and nutrition
-Understand and apply the principles of a

innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups

Generate, develop, model and communicate their ideas through discussion, annotated sketches, crosssectional and exploded diagrams, prototypes, pattern pieces and computeraided design

Generate, develop, model and communicate their ideas through talking, drawing, templates, mockups and, where appropriate, individuals or groups

Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work

Apply their understanding of how to strengthen, stiffen and reinforce more complex structures products, for example, gears, pulleys, cams, levers and linkages

Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work

Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]

Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional

	hoolthy and veried	information and		proportion and	
	healthy and varied			properties and	
	diet	communication		aesthetic qualities	
		technology			
	Prepare and cook	Making			
	a variety of				
	predominantly	Select from and			
	savoury dishes	use a wider range			
	using a range of	of tools and			
	cooking	equipment Items			
	techniques	and objects which			
	Understand	are needed to			
	seasonality, and	complete a task.			
	know where and	to perform			
	how a variety of	practical tasks [for			
	ingredients are	example, cutting,			
	grown, reared,	shaping, joining			
	caught and	and finishing],			
	processed	accurately			
	processed	accurately			
		Coloot upo and			
		Select, use and			
		combine a variety			
		of software			
		(including internet			
		services) on a			
		range of digital			
		devices to design			
		and create a			
		range of			
		programs,			
		systems and			
		content that			
		accomplish given			
		goals			
Enrichment	British Bake Off	3			
	Day				
	1 2 4 9	<u>L</u>	<u> </u>	<u> </u>	

Significant	Science	Walls and		
Study	electronics project	t barricades Topic		

Years 5 and 6: Cycle 1

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Theme	Textiles:	Structures:	Mechanisms:		Food: What	Mechanical
	Puppets/Soft	Anderson	Roman		Could Be	Systems: Toys
	Toys	Shelters	Catapults		Healthier?	
Objectives	Designing a	Designing a	Understanding		Adapting and	To know that an
	puppet	stable structure	how linkages		amending	automata is a
	considering the	that reflects a	change the		traditional recipes	hand powered
	main component	historical building	direction of a		and methods to	mechanical toy.
	shapes required	and its features.	force.		improve the	
	and creating an				nutritional value.	Experimenting
	appropriate	Creating a frame	Understanding			with a range of
	template.	structure that is	and drawing		Removing,	cams, creating a
		strong and	cross sectional		substituting or	design for an
	Considering the	supports the	diagrams to show		adding ingredients	automata toy to
	proportions of the	building.	how a catapult		to recipes.	create a desired
	individual		exerts a force,			movement.
	components.	Building a wooden	recognizing that		Follow a recipe	
		Anderson Shelter	these drawings		step by step.	Understand how
	Creating a 3D	structure.	show inner			linkages change
	puppet from 2D		workings.		Identifying the	the direction of a
	design.	Independently			nutritional	force.
		measuring,	Making things		differences	
	Measuring,	marking and	move at a specific		between products	Making things
	marking and	sawing wood	time and in a		and recipes.	move at the same
	cutting fabric	accurately.	certain way for			time.
	accurately and		optimum force.		Know that cross	
	independently.	To understand			contamination is	Understand and
		some different			where germs or	drawing cross

 ,	,	<u>, </u>			
To know that	ways of	Measuring,		bacteria pass onto	sectional
blanket stitch	supporting a	marking and		ready to eat foods	diagrams to show
reinforces edges	structure.	cutting parts		and it happens	inner workings.
or joins pieces of		accurately to		when they mix	
fabric.	To know that	make a stable		with raw meat or	Measuring,
	properties are	frame and also		unclean objects.	marking and
Creating strong	words that	provide			checking the
and secure	describe the form	appropriate		To know that I can	accuracy of the
blanket stitches	and function of	flexibility.		use a nutritional	dowel pieces
when joining	materials and why	·		calculator to see	required.
fabric.	material selection	Understanding for		how healthy a	
	is important.	the catapult to		food option is.	Measuring,
Threading		function			marking and
needles and	To adapt and	effectively the			cutting
attaching and	improve the	components must			components
joining pieces of	shelter by	be cut and fixed			accurately using a
fabric.	identifying points	accurately and			ruler and other
	of weakness and	securely.			equipment.
To know that soft	reinforcing them				
toys are made by	as necessary.	Selecting			To use a bench
creating		appropriate			hook vice and saw
appendages		materials based			safely,
separately and		on the joins and			appropriately and
then attaching		the functions of			accurately.
them together.		each part.			
					To know that a set
Applying blanket					square can be
stitch so that					used to help mark
space between					90 degree angles
the stitches are					and a protractor is
even and regular.					a tool of measure.
To know that					Understand that
small, neat					for the frame to
stitches pulled					function effectively
 					

	taut are important to make the puppet strong.				the components must be cut accurately and secured at the appropriate angles.
					Selecting appropriate materials based on the materials being joined.
					To understand that the toy uses a system of cams, axles and followers.
					To understand that different shaped cams produce different outputs.
Ongoing Objectives	Testing and evaluating an end product and giving points of further improvement for self and others.	Selecting appropriate tools and equipment for specific tasks. Identifying where	To understand that different sized and shaped catapults will exert different force.	Identifying and describing the healthy benefits of food groups. Cutting and	Applying points of improvements. Testing and evaluating an end product and giving
		the structure requires reinforcement and understanding basic wood	To understand and apply using a saw and bench hook vice	preparing vegetables safely. Using all equipment safely	points of further improvement for self and others.

		functional properties to problem solve. Testing and evaluating an end product and giving points of further improvement for self and others.	appropriately and safely.	p. K a: c:	ncluding knives, cans etc. (nowing how to void cross ontamination of cods.	Describing changes they would make if they were to do the project again.
Enrichment	Puppet Show	History Man	History Man		British Bake Off Day	
Significant Study	Researching different types of puppets to identify preferences.	World War Study	Romans Topic	d p h a	Researching lifferent eackaging and low it advertises and reflects a food broduct.	Britain at Play Topic

Years 5 and 6: Cycle 2

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Theme	Food: Come		Digital World:			Electrical
	Dine With Me		Monitoring			Systems: Steady
			Devices -			Hand Game
			Burglar Alarms			
Objectives	Research different		Researching			Gathering images
	recipes and		alarm systems in			and analysing a
	develop a menu		different building			section of
	with starter, main		types and			children's toys.
	and dessert.		developing design			
			criteria from this.			To understand the
						diagram

Adapting a recipe	Develop and	perspectives of
based on	create multiple	top, side view and
research.	housing ideas	back.
	before making a	
Following a recipe	choice.	Designing a
using the correct		steady hand game
quantities of each	Exploring 3D	 identifying the
ingredient.	models of houses	components,
	on computer.	generating ideas
To know that		via discussion
flavor is how a	Placing and	and/or sketching
food or drink	maneuvering 3D	and drawing a
tastes.	objects within a	design from three
	structure.	different
To know that		perspectives.
countries have	Developing a	
'national dishes'	programme of	To understand
which are	work to identify	that 'fit for
associated with	when a circuit is	purpose' means
that country.	broken and an	that a product
	alarm should	works well and is
To understand	sound.	easy to use.
what happens to		
certain foods	Explain key	To know that 'form
before it appears	functions within	over purpose'
on the	the system	means a product
supermarket	design.	looks good but
shelf.		does not work
	Explain how the	very well.
To know that	product is useful.	
processed food		To know the
has been put		importance of
through multiple		'form follows
changes in a		function' so the
factory.		product is

		designed with the function being of the highest importance. Modelling ideas through prototypes. Construct a stable base for the game by accurately assembling a net, incorporating a circuit and decorating to a high quality finish.
Working safely, hygienically and independently. To know it is important to wash fruit and vegetables to remove dirt and insecticides. Working to a given timescale. Evaluating health	Understanding the functions of plastics and wiring materials and the outlook on the earth's future regarding these. To know the 6 Rs of sustainability. To know that a device is equipment	Suggesting points of improvement for self and others.
	hygienically and independently. To know it is important to wash fruit and vegetables to remove dirt and insecticides. Working to a given timescale.	hygienically and independently. To know it is and the outlook on the earth's fruit and vegetables to remove dirt and insecticides. Working to a given timescale. the functions of plastics and wiring materials and the outlook on the earth's future regarding these. To know the 6 Rs of sustainability. To know that a device is equipment

	minimize cross contamination.	certain purpose to monitor and	
	Evaluating a recipe, considering taste, smell and texture. Taste testing and	detect changes.	
	scoring final products.		
	Suggesting points of improvement for self and others.		
Enrichment	Come Dine With Me Days		
Significant Study		Science electronics project	Science electronics project