

Design Technology Progression of Knowledge

National Curriculum

EYFS Framework

Expressive Arts and Design

The development of children's artistic and cultural awareness supports their imagination and creativity. It is important that children have regular opportunities to engage with the arts, enabling them to explore and play with a wide range of media and materials. The quality and variety of what children see, hear and participate in is crucial for developing their understanding, self-expression, vocabulary and ability to communicate through the arts. The frequency, repetition and depth of their experiences are fundamental to their progress in interpreting and appreciating what they hear, respond to and observe.

Pupils should be taught in KS1:

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

Design:

- Design purposeful, functional, appealing products for themselves and other users based on design criteria
- generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.

Make:

• Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]

• select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics

Evaluate:

- Explore and evaluate a range of existing products.
- Evaluate their ideas and products against design criteria

Technical knowledge:

- Build structures, exploring how they can be made stronger, stiffer and more stable.
- Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products

Pupils should be taught in KS2:

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

Design:

- Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.
- Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.

Make:

- Select from and use a wider range of tools and equipment to perform practical tasks [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.

Evaluate:

- Investigate and analyse a range of existing products.
- Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.
- Understand how key events and individuals in design and technology have helped shape the world Technical knowledge.
- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures.
- Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages].
- Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] Apply their understanding of computing to program, monitor and control their products.

Cooking and nutrition

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

Pupils should be taught to:

Key stage 1

- Use the basic principles of a healthy and varied diet to prepare dishes.
- Understand where food comes from.

Key stage 2

- Understand and apply the principles of a healthy and varied diet.
- Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.
- Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.

Progression of knowledge- year on year

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Cooking and Nutrition	N/A	Begin to understand where food comes from Prepare simple dishes using knowledge of healthy food	Understand where food comes from Use basic principles of a healthy and varied diet to prepare dishes	Apply principles of a healthy, varied diet when preparing variety of savoury dishes Apply understanding of seasonality and its link to ingredients	Know where and how a variety of ingredients are grown, reared, caught and processed	Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.	Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques Know where and how a variety of ingredients are grown, reared, caught and processed and

							its impact on meal design Develop crucial life skills of feeding themselves and others affordably and well.
Design	Use what they have learned about media and materials in original ways, thinking about uses and purpose Represent their own ideas, thoughts and feelings through design and technology, art, music, dance, role-play and stories	Design simple products that work and look appealing Discuss and draw ideas and use ICT to communicate	Design products for others and themselves that are purposeful, functional and appealing Generate, develop, model and communicate ideas through talking, drawing, templates and ICT.	Use research to inform design Communicate ideas using different strategies eg discussion, sketch Take risks to become innovative and resourceful	Use research to inform design and develop design criteria Communicate, generate and develop ideas using a range of strategies eg prototypes, pattern pieces Take risks to become innovative and resourceful	Use research to inform design and generate own design criteria Communicate, generate, develop and model ideas using a range of strategies eg computer-aideddesign, crosssectional and exploded diagrams Communicate, generate and	Use research to inform innovative design and generate own design criteria Communicate, generate and develop ideas, drawing on other disciplines eg science, maths, computing Confidently take calculated risks to become innovative,

						develop ideas,	resourceful and
						drawing on	enterprising
						other disciplines	
						eg science,	
						maths,	
						computing	
						Confidently take calculated risks to become innovative, resourceful and enterprising	
Evaluate	N/A	Explore existing products e.g. home, school Discuss own ideas and designs	Evaluate own ideas and designs against given design criteria Explore and evaluate a range of existing products eg home, school	Evaluate own ideas and designs against given design criteria and consider the views of others to improve their work Investigate a range of existing products that address real / relevant problems, in a range of relevant	Evaluate own and others' work suggesting improvements and consider the views of others to improve their work Investigate a range of existing products in a range of relevant contexts eg culture, industry	Understand how key events and individuals in D&T helped to shape the world Generate own design criteria and evaluate ideas and products against these Investigate and analyse a range of existing products that address real /	Explain and understand how key events and individuals in D&T helped to shape the world Generate own design criteria and critique ideas and products against these

				contoytooa		relevant	
				contexts eg			
				home, leisure,		problems, in a	
				school		range of	
						relevant	
						contexts	
Make	Safely use and	Use a range of	Select from and	Select from and	Select from and	According to	According to
	explore a variety	materials and	use a wide range	use a wide range	use a wider	their functional	their functional
	of materials,	components eg	of materials and	of tools,	range of tools,	properties and	properties and
	tools and	construction,	components	equipment,	equipment,	aesthetic	aesthetic
	techniques	textiles and	(according to	materials and	materials and	qualities, select	qualities, select
		ingredients.	their	components	components	from and use a	from and use a
	Experiment with		characteristics)	accurately	accurately to	wide range of	wide range of
	colour, design,	Use a range of	eg construction,		make	tools,	tools,
	texture, form	tools and	textiles and		prototypes	equipment,	equipment,
	and function	equipment to	ingredients.			materials and	materials and
		perform				components	components
	Represent their	practical tasks	Select from and			accurately to	accurately to
	own ideas,	eg cut, shape,	use a wide range			make high	make high
	thoughts and	join and finish	of tools and			quality	quality
	feelings through		equipment to			prototypes	prototypes
	design and		perform				
	technology, art,		practical tasks				
	music, dance,		eg cut, shape,				
	role-play and		join and finish				
	stories						
	Use what they						
	have learned						
	about media						
	and materials in						
	original ways,						
	thinking about						
	uses and						
	purposes						

Technical	Use what they	Start to build	Build structures,	Apply	Apply	Construct more	Construct more
Knowledge	have learned	structures,	exploring ways	understanding	understanding	complex	complex
	about media	exploring ways	to stiffen,	of how to	of how to	structures by	structures by
	and materials in	to stiffen, stable	stabilise and	strengthen,	strengthen,	applying range	applying range
	original ways,	and strengthen	strengthen	stiffen and	stiffen in order	of strategies in	of strategies in
	thinking about			reinforce	to reinforce	order to solve	order to solve
	uses and	Explore simple		structures	more complex	real / relevant	real / relevant
	purposes	mechanisms	Explore and use		structures	problems	problems
			mechanisms eg	Identify range of		Drawing on	_
			levers, wheels	mechanical		disciplines &	Drawing on
			and axles	systems and	Use computing	making	disciplines &
				how they work	to program,	connections to	making
				(gears, pulleys,	monitor and	wider subject	connections to wider subject
				cams, levers and	control products	areas, apply	areas, apply
				linkages)	-	understanding	understanding
					Identify wider	of computing to	of computing to
					range of	program,	program,
					mechanical	monitor and	monitor and
					systems and	control products	control
					how they work		products.
					•	Making	p. 0 0.0.000.
					(gears, pulleys,	connections to	
					cams, levers and		Making
					linkages)	real & relevant	connections to
						problems, apply	real & relevant
					Use	understanding	problems, apply
					understanding	of wider range	understanding
					of electrical	of mechanical	of wider range
					systems (series	systems (gears,	of mechanical
					circuits,	pulleys, cams,	systems (gears,
					switches, bulbs		pulleys, cams,
					and motors)	levers and	levers and
					and motors)	linkages)	linkages)
					Link to Science		
					22 23.3		

			Making	Making
			connections to	connections to
			real & relevant	real & relevant
			problems, apply	problems, apply
			understanding	understanding
			of electrical	of electrical
			systems (series	systems (series
			circuits,	circuits,
			switches, bulbs	switches, bulbs
			and motors)	and motors)
			Link to Science	Link to Science

Topics Overview

		Years 1 & 2	Years 3 & 4	Years 5 & 6
Cycle	This is us	Science- I'm a Survivor	History – Tomb raider	History – Great Greece
Α		History- The lady with the lamp	Geography – mountains and rivers	Geography – Mighty Mayans
2022-	Let's celebrate	Geography- Arctic adventures	Science – light and dark	Science – Space
2023		History- Life long ago	Science – healthy me	History – Bletchley park
	Baa Quack Moo	History-Castles	Geography – stars and stripes	Geography- across the ocean
		Geography- In the Jungle	History – Divide and conquer	Geography – Exciting explorers
	Overground/ Underground			

Cycle	To the rescue	Science-Marvellous Minibeasts	History – Rotten Romans	History – Titanic
В		History- The great fire of London	Geography – Volcanos	Geography – Rainforests
2023 -	Oh I do like to be beside the	History- Transport through time	History – Heads will roll	History – Vile Victorians
2024	seaside	Science-Growing up	Geography – It's a wonderful world	History – Shakespeare's sagas
		Geography- Sink or swim	History – From stone age to iron age	Geography – Where land meets the sea
		Geography- Waste not want not	Geography – my MK	Science – Fitness or football

Autumn 1

	EYFS	Years, 1 & 2		Years 3 & 4		Years 5 & 6
Cycle (A) 2022 - 2023		No DT Planning	Cycle	Structures – Egyptian Shaduf (Resources needed: wooden doweling, clay, string) https://www.youtube.com/watch?v=dwCmY fJEZal L.I. To understand what a Shaduf is and how they were made. L.I. To be able to investigate a wider range of real-life mechanisms that use a pully system today. L.I. To be able to use a given design criteria to design a Shaduf. L.I. To know how to use a variety of materials and components to create a Shaduf model. (Use a section of materials for this: sticks, flower pots, gravel, lollipop sticks, yoghurt pots, Lego etc) L.I. To be able to evaluate a design, considering the views of others to improve my design. Key knowledge: Know what a Shaduf is and how they were made. Know what equipment needed to create a pulley.	Cycle	No DT Planning

			Know the history of the pulley design. Know how to follow a design criteria effectively. Know how to evaluate a design and the vocabulary used. Vocabulary: Shaduf, pulley system, Egyptian, design, evaluation, component.		
Cycle (B) 2023 - 2024	Marvellous Minibeasts Textiles- Butterfly cushions Y1/2 Weaving Y2 running stitch Progression Y1 Begin to identify different forms of textiles/fabric e.g. felt, velvet, cotton. Continue to develop understanding weaving techniques. Use different fabrics and materials in collages. Y2 To be shown how to thread a needle. To use a running stitch. Stitch two pieces of fabric using a running stitch. Continue to gain experience in weaving, both 3D and flat i.e. grass through twigs, carrier bags on a bike wheel. L.I. To be able to explore and evaluate a range of products. L.I. To be able to understand how to use a variety of weaving techniques. L.I. To be able to practice the running stitch on binka. (Use wool for this and tapestry needles.) L.I. To be able to select from a variety of materials and fabrics when designing a product. (Cut out the image of a butterfly, design the butterfly	Cycle B	Structures and mechanisms – catapults Focus on Structures and Mechanisms Photos to be collated at the end of the year to show progression Lesson 1 L.I. To be able to use research to inform a design. (Look at a selection of catapults and gather ideas them. Use the internet to research.) L.I. To be able to evaluate an existing product using a design-criteria. (Create their own design criteria) L.I. To be able to follow a design-criteria. (Using the research from the previous lesson, follow a design-criteria to communicate their design on design paper or using ICT, through drawings and discussion. They could create a prototype using the simplified version with lollipop sticks as a GT activity.) L.I. To be able to use a range of materials, tools, equipment and components when following a design brief. (Look at a design brief of making a catapult. Select from a variety of materials and components to make design slightly different to others.) L.I. To be able to evaluate and improve my own design using a design-criteria.	Cycle B	Structures – Building a ship Focus on Structures and Mechanisms-design and make a moving ship using a series circuit to move a propeller (motor/ lights/buzzer) L.I. To be able to use research to inform my design and design-criteria. (Using computers to research ship designs. Think about how they work and creating a design-criteria for the mechanisms of either making a propeller move or electricity to make it light up) L.I. To be able to communicate a design brief through the use of ICT, including cross sectional and exploded diagrams. (Look at examples of a motor-powered vehicle/boat. Design the mechanics of the boat as an exploded/cross sectional diagram. Look at original

and what materials they will use to decorate it. Will they cut and stick or sew on buttons etc? Use thick card a s a template for them to draw around and cut out the image of the butterflytwice).

L.I. To know how to use the running stitch when sewing. (Y1 Glue on a pre-cut image of a butterfly from a chosen fabric. Y2 Sew on a pre-cut/cut out an image themselves of a butterfly out of felt/fabric.

Y1 With support use the running stitch.

Y2 Use the running stitch to stich up the pillow)

L.I. To be able to evaluate our designs against a design-criteria. (Y1 discuss designs as a group. Y2 Children to use a pre-written design-criteria when evaluating their design.)

Key knowledge

An understanding of materials and some of their properties.
How to design a product using the most appropriate materials.
Weaving techniques in preparation from them to learn how to use a running stich to attach two pieces of fabric together securely.
The process of researching, designing and evaluating a DT project.
Vocabulary:

(Using a design-criteria, evaluate their design, giving suggestions as to how to improve it.)

L.I. To be able to apply my understanding of how to strengthen, stiffen and reinforce a catapult.

(Using the evaluation from previous lesson, identify areas that need improving. How can I strengthen the design? Use a variety of materials to stiffen, strengthen or reinforce the catapult.)

Key knowledge

Understanding how pulleys work and how to use them effectively.

Know how to evaluate a product they designed and an existing product.

Know how to research effectively.

Vocabulary:

Projectile, fortification, gravity, hurl, winch

Titanic blue prints to support.)

L.I. To be able to use and select appropriate materials and components.
(Select materials to create their design.)

L.I. To be able to use tools and techniques when carrying out a design. (Use knowledge of a variety of tools when constructing their design. E.g. Use of scissors, rulers to measure, screws and fixings, sanding, Stanley knives and glue guns etc.)

L.I. To be able to select from materials and components when designing high quality prototypes.

(Make a prototype boat)
https://www.youtube.com/
watch?v=tc1ANGJ2Zio

L.I. To be able to apply understanding of electrical systems.

(Create the series circuit for the motorised propeller.)

Key knowledge

Understanding of how different constructions have an impact on its structure

How the working characteristics of materials affect the ways they are used

cl	Evaluate, material, compare, weave, challenge, over, above, under, below, felt, fabric, running stitch, design.		How materials can be combined to create more useful properties Vocabulary: Criteria, blueprint, cross-sectional, exploded Diagram, components, cutting/shaping/joining
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Autumn 2

EYFS	Years, 1 & 2	Y	ears 3 & 4		Years 5 & 6		
Cycle (A) 2022 - 2023	Textiles – Weaving End product: Create a lamp using woven materials. (Resources: Wool, string, cardboard strips, coloured paper/card) Y1 – Weave coloured tissue paper(red, yellow, orange) through sugar paper and turn into a lantern with a handle. Y2 – weave wool and material to create a background for a lamp. Pre-cut black card image of a lamp – woven material goes behind. L.I. To be able to explore and evaluate existing woven products using a given criteria. L.I. To be able to communicate a design using a labelled diagram. (Link to ICT) L.I. To be able to use a variety of materials to create a weave pattern on a large scale. (Use strips of material (large scale) and weave in and out of the fence near Y5/6 area. Link to colours of the lamp.)	Cycle A	No DT Planning	Cycle	Food Tech – Chocolate L.I. To be able to create a set of design criteria to critique a range of existing products. L.I. To understand how chocolate is grown and produced. L.I. To understand the problems related to the farming of Cacao beans. L.I. To be able to design a product using a set of criteria I have generated based on a real life product. L.I. To be able to select from a variety of ingredients based on their aesthetic qualities. (1 of 2 lessons) L.I. To be able to use a variety of equipment and ingredients to create a prototype. (2 of 2 lessons – make) L.I. To be able to critique my product against a set of criteria I have created. (Taste testing – sell to people and ask opinions of the taste-comparison test) Key knowledge: Know where Cacao is grown and how it is grown and manufactured. Know how the farmers of Cacao are treated and poorly paid. Know how the Faitrade Foundation has helped to ensure farmers are paid a decent wage for the product they are farming. Know how to create a design criteria.		

	L.I. To be able to select appropriate coloured materials for a purpose (weaving). L.I. To be able to evaluate my design using a given criteria. Key knowledge: Know how to weave a variety of materials. Know how to use a design-criteria to evaluate existing products. Know how to design a product using labels and simple diagrams. Know how to communicate a design with a partner. Vocabulary: Diagram, evaluate, weave, material, purpose, criteria.				Know how to use technical vocabulary when evaluating other products as wellas their own. Vocabulary: Critique, product, evaluate, prototype, aesthetic, compare, Fairtrade, manufactured.
Cycle (B) 2023 - 2024	No DT Planning	Cycle B	No DT Planning	Cycle B	No DT Planning

Spring 1

	EYFS	Years 1 & 2		Years 3 & 4		Years 5 & 6
Cycle (A) 2022 - 2023		No DT Planning	Cycle A	Structure – Moving Shadow Puppets (Resources: Black card, thin dowling, tape, split pins) L.I. To be able to investigate other existing shadow puppets from the Shang dynasty, discussing features we think are effective. (Link to typical characters and animals used in puppet shows from the dynasty) L.I. To be able to communicate a design through discussion and	Cycle A	No DT Planning

sketches, using research to inform our design. L.I. To be able to use a prototype to inform our final design. (Look at a variety of tools and joining techniques (split pins, dowling, card, paper, selotape, glue) to create a prototype and use for a later lesson to know how to strengthen and improve our final design) L.I. To understand how to strengthen, stiffen and reinforce our shadow puppet. (Evaluate prototype through discussion- what worked well/didn't, how will they improve this?) L.I. To be able to use a range of tools, materials and joining techniques to make a shadow puppet. L.I. To be able to evaluate our own and others' designs, suggesting improvements, considering the views of others to improve my own work. (Use a given set of criteria for Y3 children) Key knowledge: Know why the Shang Dynasty used animal shadow puppets and how they were made. Know how to research a design. Using technical vocabulary, discuss design ideas with others and draw sketches of a design. Know why it is important to create prototypes. Know how to strengthen, stiffen and reinforce our shadow puppets to improve the design. Know how to evaluate own and others' work suggesting improvements and consider the views of others to improve their work.

(B) (Levers and sliders) Focus on Structures and Mechanisms. Final product: Create a class book on transport with moving pictures using sliders or levers. L.I. To be able to generate ideas through discussion. (Investigate a selection of moving pictures/books etc with levers and sliders. Use a checklist discuss what they like or dislike about the designs. Decide which type of moving part they would like to use - slider or lever) L.I. To be able to communicate ideas through drawing. (Draw image of a scene to be used in their moving picture, using the children could make a different image from the story as to make a class book/selection of books.) L.I. To be able to evaluate an existing product design. (Taste testing of cakes/ingredients) L.I. To be able to use research to inform a design. (use traditional images of twelfth night cake and myny certain ingredients were used to make it. (Apply understanding of seasonality and its link to ingredients L.I. To be able to evaluate an existing product design. (Taste testing of cakes/ingredients) L.I. To be able to use research to inform a design. (use traditional images of twelfth night cake and myny certain ingredients were used to make it. (Apply understanding of seasonality and its link to ingredients L.I. To be able to evaluate an existing product design. (Taste testing of cakes/ingredients) L.I. To be able to use research to inform a design. (use traditional images of twelfth night cake and myny (use traditional images of twelfth night cake and myny (use traditional images of twelfth night cake and myny (use traditional images of twelfth night cake and instancing of acasonality and its link to ingredients L.I. To be able to evaluate an existing product design. (Taste testing of cakes/ingredients) L.I. To be able to use research to inform a design. (use traditional images of twelfth night cakes and ingredients used L.I. To be able to evaluate an existing fordients (Investigational images of twelfth night cakes and ingredients L.I. To be able to evaluate an existing		T	ı			T
Noable dynasty, criteria, prototype, join, shadow puppet, strengthen, stiffen and reinforce (Levers and sliders) Focus on Structures and Mechanisms. Final product: Create a class book on transport with moving pictures using sliders or levers. L1. To be able to generate ideas through discussion. (Investigate a selection of moving pictures/books etc with levers and sliders. Use a checklist discuss what they like or dislike about the designs. Decide which type of moving part they would like to use - slider or lever) L1. To be able to communicate ideas through drawing. (Draw image of a scene to be used in their moving picture, using the ideas gathered from Lesson 1. The children could make a different image from the story as to make a class book/selection of books.) L1. To be able to use a variety of textiles to generate ideas. (Collage of their picture using a move the picture using a move the list of the picture using a move the picture using a move the list of the list of the picture using a move the list of the list of the picture using a move the list of the						
Shang dynasty, criteria, prototype, join, shadow pupers, strengthen, stiffen and reinforce.						
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(B) (Levers and sliders) Focus on Structures and Mechanisms. Final product: Create a class book on transport with moving pictures using sliders or levers. L.I. To be able to generate ideas through discussion. (Investigate a selection of moving pictures/books etc with levers and sliders. Use a checklist discuss what they like or dislike about the designs. Decide which type of moving part they would like to use - slider or lever] L.I. To be able to communicate ideas through drawing. (Draw image of a scene to be used in their moving picture, using the children could make a different image from the story as to make a class book/selection of books.) L.I. To be able to explain the history of the twelfth Night Cake and why certain ingredients were used to make it. (Apply understanding of seasonality and its link to ingredients (ITaste testing of cakes/ingredients) L.I. To be able to use research to inform a design. (Use traditional images of twelfth night cake and why certain ingredients were used to make it. (Apply understanding of seasonality and its link to ingredients (Taste testing of cakes/ingredients) L.I. To be able to use research to inform a design. (Use traditional images of twelfth night cake and myhy certain ingredients were used to make it. (Apply understanding of seasonality and its link to ingredients (Taste testing of cakes/ingredients) L.I. To be able to use research to inform a design. (Use traditional images of twelfth night cake and myhy certain ingredients were used to make it. (Apply understanding of seasonality and its link to ingredients und its link to ingredients L.I. To be able to evaluate an existing product design. (Use traditional images of twelfth night cakes and ingredients L.I. To be able to use research to inform a design. (Use traditional images of twelfth night cakes and ingredients L.I. To be able to select from and use a range of tools and equipment when making a Twelfth Night Cake. (Make a cake as a group or small cupcakes?) L.I. To be able to evaluate an existing product design						
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		(Collage of their picture using a		· · · · · · · · · · · · · · · · · · ·		
variety of materials to create a Night Cake originated from. Find out the historical context of the Twelfth		1		Night Cake originated from.		
background image - cutting and Night Cake, and the ingredients used in a		, · · ·				
sticking). Twelfth Night Cake as well as why they are						
used.		 				

L.I. To be able to design and make Know about the traditions associated with the dessert and learn how to replicate the recipe, a lever or slider. gaining skills such as whisking, weighing, and (Create the design of the moving folding. part. Look at a variety of levers and Know how to create a desig-criteria before sliders to gather more ideas for making the cake, and then evaluate it after the final product is produced. This will be done their own design. Decide which through previous experiences. they will use and design the image Vocabulary: on it that will go in the class book) Twelfth Night Cake, epiphany, Tudors, festivity, L.I. To be able to use tools and celebration, harvest, dried fruits, autumn, techniques to join materials to agriculture. make a slider or lever. (Make the moving image using a variety of levers or sliders) L.I. To be able to evaluate and improve my design. (Evaluate product- Look at ways of improving it. How can we strengthen and stiffen the lever or slider? EBI) Key knowledge: Develop an understanding of sliders and levers as moving parts. Use this knowledge to design a product using the most appropriate materials. Know how to select appropriate materials and equipment for their product. Understand the process of researching, designing and evaluating a DT project. Vocabulary: slider, lever, pivot, mechanisms, moving, pictures, materials, resources, equipment, planning, design.

Spring 2

	EYFS,	Years 1 & 2		Years 3 & 4		Years 5 & 6
Cycle (A) 2022 - 2023		Structures – Kites L.I. To be able to explore and evaluate a variety of existing products using a given criteria. (aesthetic as well as functional qualities) L.I. To be able to apply qualities of pre-existing products to a design. L.I. To be able to use ICT to communicate design features. L.I. To be able to select from and use a range of components to create a kite structure. L.I. To be able to explore ways to stiffen, stable and strengthen a structure. L.I. To be able to evaluate a design using a given criteria. Key knowledge: Know how to discuss what they like and dislike about other kite products on the market. Know how to gather ideas for their own kite design. Know how to design a kite including features used from products available on the market today. Use their knowledge of other kite designs to inform their own designs. Know how to use computer programmes to communicate their design ideas. Know how to join components together using sticky tape, glue or tacs. Through experimentation, know how to stiffen, stable, and strengthen their kite design.	Cycle	No DT Planning	Cycle	Textiles – Make do and Mend L.I. To be able to investigate and analyse a range of existing products that address a real-life problem during the WWII era. (rationing/make, do mend campaign, designers who helped in the era) L.I. To be able to use research to inform innovative design and generate own design criteria. (create a mood board that evoke a chosen theme, style or concept). L.I. To be able to communicate a design using a computer programme. L.I. To know how to use a use a number of different stitches creatively to produce different patterns and textures. L.I. To be able to make choices, based on functional and aesthetic qualities, on a wide range of materials and components to create a high-quality prototype. L.I. To be able to generate own design criteria and critique a product against these. Key knowledge: Know that rationing had an impact upon the way in which people bought clothing and other products during the WWII era. Know what the make, do, mend campaign was and how it affected clothing of the era. Know how to create a mood board and how they are used to inform a design. Vocabulary: Evoke, theme, style, concept, innovative, embroidery, textual effects, cross stitch

		now how to use a given criteria to critically				Progression for Stitching:
		valuate their own design of a kite.				Y5 Introduce a cross stitch in embroidery. Use a
		ocabulary:				variety of techniques, e.g. printing, dyeing,
		tiffen, strengthen, stable, criteria, evaluate,				weaving and stitching to create different textural
	pr	roduct, design, features, components, join.				effects. Demonstrate experience in combining
						techniques to produce an end piece: embroidery
						over tie dye. Show awareness of the skills involved
						in aspects such as knitting, lace making. Continue
						to change and modify threads and fabrics.
						Y6 Design, plan and decorate a fabric piece.
						Experiment with a variety of techniques.
						Use a number of different stitches creatively to
						produce different patterns and textures.
						Recognise different forms of textiles and express
						opinions on them.
Cycle		No DT Planning	Cycle	No DT Planning	Cycle	Food Tech – Making bread
(B)			В		В	L.I. To understand where the ingredients
2023 -						come from to make bread and how it is
2024						processed today.
						L.I. To know how Elizabethan meals,
						•
						including bread, were made and
						processed.
						L.I. To know the health impact of eating
						bread in the past and today.
						(Staple diet in Elizabethan times)
						•
						L.I. To be able to research and design
						ideas for bread making, communicating
						these ideas using ICT.
						L.I. To know how to prepare and cook
						traditional Elizabethan bread.
						L.I. To be able to generate a design-
						criteria and evaluate the product against
						these.
						https://www.warburtons.co.uk/our-
						company/sustainability/teaching-resources/bread-
						making-project/

		*Maths project – how to feed a family cheaply
		including bread. Create a set of 3 cheap meals in a
		day.
		Key knowledge:
		Know where the ingredients for bread comes
		from, how they are grown and how they are
		processed today.
		Know how to compare the process of bread
		making in the Elizabethan era, along with other
		traditional meals of the time.
		Understand the health impacts of eating bread
		today and in the past.
		Know how to use a computer programme to
		design a bread recipe.
		Know how to prepare and make a traditional
		Elizabethan bread.
		Vocabulary:
		Sustainability, processed, staple, traditional, diet.

Summer 1

	EYFS	Years 1 & 2	Years 3 & 4		Years 5 & 6	
Cycle (A) 2022 - 2023		No DT Planning	Cycle A	Food Tech – Pot Pies L.I. To be able to apply principles of a healthy, varied diet when preparing a pot pie dish. (Look into the nutritional value of food items being used in the pot pies) L.I. To know where and how the ingredients used in making pot pies are grown and processed. (ingredients, vegetables, how they are made) L.I. To be able to investigate a range of products, evaluating and suggesting improvements.	Cycle A	No DT Planning

(Use this lesson to inform their decision for
the ingredients to be used in their own pot
pies)
L.I. To be able to communicate and design a
recipe for a pot pie using a computer
programme.
(Encourage the children to be innovative and
resourceful when making choices of
fillings/design)
L.I. To be able to use a variety of tools and
cooking techniques when making a pot pie.
L.I. To be able to evaluate a product, using a
given set of criteria, making suggestions on
how to improve it, either through taste or
aesthetic qualities.
Key knowledge: Know what a healthy diet consists of and understand
why.
Know the nutritional value of ingredients in pot pies
today and in the past.
Know how the ingredients used in pot pies are grown,
cultivated, farmed and processed in the UK.
Know how to use information gathered from other
sources to inform a recipe design.
Know what ingredients go into the making of a pot pie. Understand the process of making a pot pie, using the
correct cooking utensils, weighing out ingredients and
following a recipe correctly.
Know how to use a given set of criteria to evaluate
their own and others' pot pies, suggesting ways to
improve them, either through taste or aesthetic
qualities.
Vocabulary:
Principle, health, varied, resourceful, innovative, processed, criteria, evaluate, aesthetic, principles,
cultivated, farming, innovative,
Cultivateu, laitiilig, lilliovative,

Cycle	No DT Planning	Cycle	No DT Planning	Cycle	No DT Planning
(B)		В		В	
2023 -					
2024					

Summer 2

	EYFS	Years 1 & 2		Years 3 & 4	Years 5 & 6	
Cuelo	EVEC Expressive	Cooking and Nutrition Transact	Cycle	No DT Dlanning	Cycle	Structures – Build a shelter
Cycle	EYFS - Expressive	Cooking and Nutrition- Tropical	Cycle	No DT Planning	Cycle	
(A)	arts and design	Fruit Smoothies	Α		Α	L.I. To be able to use research to inform our
2022 -	ELG Creating with	L.I. To be able to say where food				design of a shelter.
2023	materials	comes from.				L.I. To be able to communicate a design
		(Growing of fruits and vegetables)				using exploded diagrams.
	Safely use and	L.I. To be able to explore and				https://www.stem.org.uk/resources/elibrary
	explore a variety of	evaluate existing products.				/resource/446794/exploded-views (If
	materials, tools and	(Taste testing sessions, selecting				possible, using ICT and link to maths)
	techniques,	chosen fruits and vegetables for				L.I. To know how to build more complex
	experimenting with	final product-Given criteria to use).				structures, thinking about how to stabilise
	colour, design,	L.I. To be able to use our				and strengthen them.
	texture, form and	understanding of what a healthy				https://www.stem.org.uk/resources/elibrary
	function.	balanced diet consists of when				/resource/446809/stronger-structures
		making choices for our smoothie				L.I. To be able to create a cross sectional
	Share their	ingredients.				design, using my knowledge of how to
	creations,	L.I. To be able to communicate a				create a strong structure to inform my
	explaining the	design through talking and drawing				design.
	process they have	using a given template.				L.I. To be able to select from a wide variety
	used.	L.I. To be able to select and use a				of tools, equipment and materials when
		wide range of tools and equipment				recreating a design.
	Make use of props	to create a smoothie.				L.I. To be able to create own design criteria
	and materials when	L.I. To be able to evaluate a product				to critique each structure against.
	role playing	against a given criteria.				Key knowledge
	characters in	agamet a given criteria.				Know what an exploded diagram is and how to draw
	Characters in					one.

		I				T.,
	narratives and	Key knowledge Know where and how certain fruits and				Know what a cross sectional design is and how to draw one.
	stories.	vegetables are grown.				Know how to strengthen a structure.
		Say what they like and dislike about existing				Know and use key vocabulary linked to evaluating each
	EYFS – Physical	smoothies, describing the tastes.				structure. (Strong, structure, adapt, design, evaluation,
	development	Know how to communicate their likes and				feedback, critique, mark out, measure, modify, natural
	ELG Fine motor	dislikes, either through talk or recording in a				materials, plan view, reinforce, prototype, weak)
	Use a range of small	given chart.				Know how to use a variety of tools.
	tools, including	Know which food items are healthy/ unhealthy and explain why.				Vocabulary: Exploded diagram, cross sectional diagram,
	scissors,	Using a given template, know how to				strengthen, structure, adapt, critique, reinforce,
	paintbrushes and	communicate a design through drawing and				prototype, structure.
	cutlery.	labelling a picture.				
	cationy.	Communicate through discussion, what				
		they like/dislike about their smoothie.				
		Vocabulary: Existing, healthy, unhealthy, evaluate,				
		product, fruit, vegetables, balanced diet,				
		tools, equipment.				
Cycle	EYFS - Expressive	Waste not want not - Cooking and	Cycle	<u>Textiles</u> – Viking Coin Bags	Cycle	Textiles – Sewing an Emblem for a new
(B)	arts and design	nutrition - Salads	В	Continue running stitch – introduce a	В	football team
2023 -	ELG Creating with	L.I. To be able to research how local		back stitch.		Cross stitch and a number of different
2024	materials	food (UK) is grown.		L.I. To be able to research existing		stitches (Continue the running and back
	Safely use and	(Opportunity for a local visit to a		products, evaluating using a given		stitch)
	explore a variety of	local farm/farm shop/market)		criteria.		L.I. To be able to use research to inform a
	materials, tools and	L.I. To be able to use my knowledge		(look at a variety of small bags)		design.
	techniques,	of healthy food to inform my		L.I. To be able to design a coin bag		L.I. To be able to use annotated sketches
	experimenting with	design.		through discussion, sketches and		when designing a product.
	colour, design,	(Making a salad, select from a		pattern pieces.		L.I. To know how to use a variety of stitches.
	texture, form and	variety of vegetables, sauces and		(Pattern pieces Y4 and design an		(Practice stitches (Y5 focus on cross stitch –
	function.	cheese to go in the salad.)		image to use back stitch for a		Y6 continue cross, running, whip, back)
	Share their	L.I. To be able to use a range of		letter/symbol)		L.I. To be able to draw a design onto cross
	creations,	ingredients when making a salad.		L.I. To be able to thread a needle		stitch paper. (Look at a selection of cross
	explaining the	(After lesson 3- do a taste testing		independently, applying decoration		stitch images for ideas.)
	process they have	session- children to use a tally chart		using beads and buttons.		L.I. To be able to create a high-quality
	used.	to see which salads they liked the		L.I. To be able to be able to use the		prototype using a cross stitch design.
	Make use of props	best (blind test would be fun)		running stitch to embroider an		L.I. To be able to evaluate and critique
	and materials when			image/symbol on our coin bag.		others designs, suggesting ways to improve a
	role playing			(Include both L.I. in one lesson)		product.
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characters in narratives and stories.

EYFS – Physical development

ELG Fine motor
Use a range of small
tools, including
scissors,
paintbrushes and
cutlery.

L.I. To know how to use tools safely when cutting and chopping ingredients.

L.I. To be able to evaluate a product.

(Use the taste test session to support this lesson. Did they include all the features of a healthy salad?)
L.I. To be able to use a given criteria to improve my work.

(What are the key features that the salad must be? Healthy, filling, taste nice, include a variety of vegetables, crunchy? How would they improve this? Use the taste testing session to support. Use discussions and written comments.)

Key knowledge:

Know where and how some vegetables and fruits are grown in the UK.

Know which food items are healthy and why.

Know what a balanced diet consists of. Know the safety of using a knife, how to hold fingers when cutting safely and sensibly.

Know how to evaluate their smoothie and suggest ways to improve it.

Vocabulary:

Balanced, diet, nutrition, vitamins, minerals, fruit, vegetables, healthy, unhealthy, grown, produced, farmed, criteria, evaluate, improve.

L.I. To be able to use a back stitch/running stitch to enclose our coin bags.

L.I. To be able to evaluate my design using a given criteria.

Key knowledge:

Know what a running and back stitch is and how to use them effectively and accurately. Know how to communicate my research through drawings and labels.

Know and use the key vocabulary; back stitch, running stitch, embroidery, embroider, emblem, image, material, fabric, decoration, criteria, evaluate, improve.

Know how to thread a needle.

Know what a coin bag is and what they were used for.

Vocabulary:

Running stitch, back stitch, research, thread, decoration, fabric, emblem, embroidery, embroider.

Progression for stitching

Y3 Begin to thread a needle independently. Continue to use a running stitch and introduce a back stitch.

Apply decoration using beads, buttons, feathers etc.

Begin to modify threads and fabrics, knotting, fraying, fringing, pulling threads, twisting, plaiting.

Y4 Thread a needle independently.
Use a running and back stitch.

Apply decoration using needle and thread: buttons, sequins. Gain experience in applying colour by printing and using fabric crayons/paints.

Change and modify threads and fabrics as in Y3.

Key knowledge

Know what a cross, whip, running and back stiches are and how they are used.

Know how to use a cross, whip, running and back stitches.

Know how to use research to inform their own design of an emblem.

Know how to create annotated sketches when designing their emblem.

Know how to draw a design onto cross stitch paper and use this to create a cross stitch image.

Know how to evaluate and critically evaluate their own and others' designs, suggesting ways to improve them.

Vocabulary:

Running, back, whip and cross stitch, emblem, annotated, cross stitch, high quality prototype.

Progression for Stitching

Y5 Introduce a cross stitch in embroidery. Use a variety of techniques, e.g. printing, dyeing, weaving and stitching to create different textural effects. Demonstrate experience in combining techniques to produce an end piece: embroidery over tie dye. Show awareness of the skills involved in aspects such as knitting, lace making. Continue to change and modify threads and fabrics.

Y6 Design, plan and decorate a fabric piece. Experiment with a variety of techniques. Use a number of different stitches creatively to produce different patterns and textures. Recognise different forms of textiles and express opinions on them.