St Just Primary School Curriculum Map Design Technology

What does Design Technology look like in EYFS?

In planning and guiding what children learn, practitioners must reflect on the different rates at which children are developing and adjust their practice appropriately, referring to the Characteristics of Effective Teaching and Learning These are: playing and exploring – children investigate and experience things, and 'have a go'; active learning – children concentrate and keep on trying if they encounter difficulties, and enjoy their achievements for their own sake; creating and thinking critically – children have and develop their own ideas, make links between ideas, and develop strategies for doing things. In addition, the Prime Areas of Learning (Personal, Social and Emotional Development, Communication and Language and Physical Development) underpin and are an integral part of children's learning in all areas.

Please see separate EYFS documents for f<mark>urther information on how our curriculum meets the needs of the children in the Tater D</mark>u cohort.

Expressive Design Technology (Exploring and Using Media and Materials)

Children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.

Expressive Design Technology (Being Imaginative)

Children use what they have learnt about media and materials in original ways, thinking about uses and purposes. They represent their own ideas, thoughts and feelings through design and technology, art, music, dance, role play and stories.

Opportunties to promote skills.

- Provide opportunities to work together to develop and realise creative ideas. Reflect with children on how they have achieved their aims.
- Provide a range of materials and tools and teach children to use them with care and precision.
- Promote independence, taking care not to introduce too many new things at once.
- Encourage children to notice features in the natural world and discuss their responses to what they see.
- Help them to define colours, shapes, texture and smells in their own words.
- Visit galleries and museums to generate inspiration and conversation about art and artists

Possible vocabulary coverage.

Mark-make, draw, lines, circles, colour, mix, primary, secondary, texture, form, sculpt, print, art, techniques

Development Matters

Explore different materials freely, in order to develop their ideas about how to use them and what to make. Develop their own ideas and then decide which materials to use to express them.

- Join different materials and explore different textures.
- Create closed shapes with continuous lines, and begin to use these shapes to represent objects.

3-4 years

- Draw with increasing complexity and detail, such as representing a face with a circle and including details.
- Use drawing to represent ideas like movement or loud noises.
- Show different emotions in their drawings and paintings, like happiness, sadness, fear.etc.
- Explore colour and colour mixing.

Reception

- Explore, use and refine a variety of artistic effects to express their ideas and feelings.
- Return to and build on their previous learning, refining ideas and developing their ability to represent them.
- · Create collaboratively, sharing ideas, resources and skills.

ELG – Creating with Materials

To only be assessed against at the end of the Summer Term, using a 'Best Fit' judgement.

- Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.
- Share their creations, explaining the process they have used.

Physical Development (Moving and Handling)

Children handle equipment and tools effectively, including pencils for writing.

Physical Development is a Prime Area which underpins many of the skills needed to ensure progression within Expressive Arts and Design. The progression of Physical Development Skill are outlined below.

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J-7	1 Cais

- Use large-muscle movements to wave flags and streamers, paint and make marks.
- Choose the right resources to carry out their own plan.
- Use one-handed tools and equipment, for example, making snips in paper with scissors.
- Use a comfortable grip with good control when holding pens and pencils.

Reception

- Develop their small motor skills so that they can use a range of
- tools competently, safely and confidently.
- Use their core muscle strength to achieve a good posture when sitting at a table or sitting on the floor.
- Develop overall body-strength, balance, coordination and agility.

ELG – Fine Motor Skills

To only be assessed against at the end of the Summer Term, using a 'Best Fit' judgement.

- Hold a pencil effectively in preparation for fluent writing using the tripod grip in almost all cases.
- Use a range of small tools, including scissors, paintbrushes and cutlery.
- · Begin to show accuracy and care when drawing.

Summary of skills by end of year: developing small and gross motor skills; hold a paintbrush and pencil comfortably; hold a pair of scissors effectively; have explored materials for texture; used junk modelling to explore making something and talking about it; become aware of what is on their face



Expressive Arts and Design

STATUTORY EDUCATIONAL PROGRAMME:

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.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Possible themes, interests and lines of enquiry	All about me and my family. Seasonal Change - Autumn. Starting School - Teddy Bears. Pete the Cat.	Celebrations Christmas Around the World.	Seasonal Change - Winter Animals	Growing and Changing	People who help us. What do I want to be when I grow up?	Summer A Seaside Adventure
Celebrations & Experiences.	School rules, classroom routines. Halloween	Diwali Bonfire Night Children in Need Remembrance Day Christmas	Valentines Day Lunar New Year	World Book Day Mother's Day Pancake Day Easter	Visitors from the community linked to jobs and careers.	Father's Day Sports Day Rock Pools Mermaids Pirates





Autumn 1 Autumn 2 Spring 1 Spring 2 Summer 1 Summer 2 Children will learn to sing and perform a range of songs and rhymes. In addition , to daily experiences and opportunities offered, the children will have a dedicated rhyme time each week, Expressive Arts where they will be introduced to a 'rhyme of the week'. The weekly rhyme will be added to the children's rhyme books, which they can take home to practice and share with their families. Children will develop skills in listening attentively, moving to and talking about music, express their feelings and responses. We will experience singing in a group or on their own, Musical increasingly matching the pitch and following the melody. Children will watch and talk about dance and performance art, express their feelings and responses. Children will explore Development and engage in music making and dance, performing solo or in groups. In addition to the daily experiences and opportunities offered in EYFS the children will have specific musical Through development sessions using Charanga. Charanga ME! MY STORIES! EVERYONE! OUR WORLD **BIG BEAR FUNK!** Reflect, Rewind & Replay Wind The Bobbin Up Old Macdonald I'm A Little Teapot a transition unit that Listen and Appraise Pat-a-cake The Grand Old Duke Incy Wincy Spider 1, 2, 3, 4, 5, Once I Rock-a-bye Baby prepares children for their Play instruments within the Of York Twinkle Twinkle Baa Baa Black Sheep Caught... musical learning in Year 1 song This Old Man Ring O' Roses If You're Happy And You Row, Row, Row Your Improvisation using voices and Five Little Ducks Hickory Dickory Dock Know It Boat instruments Not Too Difficult Head, Shoulders, Knees And The Wheels On The Bus Name Song Riff-based composition Things For Fingers The ABC Song Toes The Hokey Cokey Share and perform the learning that has taken place Children will explore, use and refine a variety of artistic effects to express their ideas and feelings. Children will be able to recognise the work of famous artists and take inspiration Artist Study from their work, Children will be able to express how they feel about the work of the artist they are studying, Children will work to create collaboratively, sharing ideas, resources and skills, as well as independently. Children will learn the skill of returning to and building on their work, refining ideas and developing their ability to represent them. Jackson Pollock Yayoi Kusama Yves Klein Andy Goldsworthy Vincent van Gogh Henri Matisse Piet Mondrian, Ioan Miro Eric Carle Wassily Kandinsky Charlie Mackesy

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Creative Art	experiment and develop their	r own creativity. They will have t	tic skills. The children will have daily, continue he opportunity to create collaboratively sharir eloping their ability to represent them. In addi	ng Ideas and resources as well on sol	o work. Throughout the year the childre	opportunity to explore, n will have the opportunity to retu
Mark Making/ Drawing	Understand how to grip a pencil comfortably and explore making marks, creating lines and circles. Give meaning to marks made.	Skill: observational drawing - Pumpkins Understand how to create closed shapes with continuous lines, and begin to use these shapes to represent objects.	Skill: show different emotions in their drawing e.g. happiness, sadness. Draw with increasing complexity and detail, such as representing a face with a circle and including details.	Skill: Observational drawing - Daffodils	Skill: observational drawing - Sunflowers Show accuracy and care in their drawing.	Skill: produce more detailed work and say what they have included.
Colour	Experience: explore colours and how colours can be changed. Identify light and dark colours.	Knowledge: recognise and name colours.	Skill: to be able to create a wash background and combining colour in the style of Joan Miró.	Skill: colours in nature and how they can be applied to art in the style of Andy Goldsworthy.	Skill: exploring shades of colour and how to make different shades.	Skill: to be able to choose a particular colour for a purpose.
Painting	Skill/Knowledge: splatter painting in the style of Jackson Pollock	Skill/Knowledge: Only using one colour to create in the style of Yves Klein	Experience: explore different paint types - watercolour, powder paint, acrylic, ready mix paint.	Skill: mix paints to make new colours following instructions.	Experience: explore working with paint on different surfaces and in different ways i.e. coloured, sized and shaped paper. Explore using different brush types.	Skill: paint through inspiration, feeling, observation or imagination. Evaluate their own work and others, suggest how work can be improved.
Printing	Skill: printing with hands, feet and fingers	Skill: printing with spongesand rollers. shapes. Inspiration Mondrian (primary colours) & Kandinsky (shapes	Skill: printing with natural objects/food e.g. leaves, pine cones.	Skill: printing simple repeating patterns. Recognise patterns in the environment	Skill: symmetrical printing - butterflies as inspiration.	Skill: to be able to create using own ideas and explain the choices
Textiles & Materials	Understanding: how different materials/textures feel and explore freely e.g. malleable, fabrics, natural.	Skill: Junk modelling with different materials. Junk modelling will continue to be offered in continuous provision.	Knowledge: understand the purpose of different textiles/materials. e.g. winter clothing.	Skill: Collage using Eric Carle as inspiration Skill: follow instructions to make own play dough	Skill: Weaving (natural and manmade materials)	Skill: Weaving (natural and manmade materials) Some pupils may also begin t sew with a pre-running stitch.
3D Work	Understanding: to know what transient art is. Transient art will continued to be offered in continuous provision.	Skills: to use simple joins when using different materials to create 3D work, e.g. sellotape, masking tape, stick glue.	Skill: creating work to celebrate special days e.g. decorations (paper chains, bunting) for lunar new year, valentine's Day.	Skill/Knowledge: Natural art in the style of Andy Goldsworthy	Skill: Making own props/ puppets to retell a story. Folding techniques e.g. fans, aeroplanes, books. Choosing materials for effect e.g. feather headdress	Skill focus: be able to select tools and techniques needed to assemble and join materials they are using for a specific reason.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Cutting Skills	Cutting Skill: Using onehanded tools and equipment, for example, making snips in paper with scissors.	Cutting skill: use scissors to cut in a straight line.	Cutting skill: use scissors to cut curved lines.	Cutting Skill: use scissors to cut shapes.	Cutting Skill: use scissors independently.	Cutting skill: use scissors for a particular purpose when combining different media and materials.
Being Imaginitive	Take part in simple, pre on familiar experiences, Uses available resources creates imaginary ones to suppo Develop storylines throuroleplay.	e.g. making dinner. s to create props or ort play.	Retell parts of familiar sto puppets, toys, masks or sm Create more complex narr pretend play, building on t their peers. DRAWICLU	nall-world. atives in their he contributions of	Invent, adapt and recoustories with peers and to Creates representations and real-life ideas, ever objects. Uses combinations of a and singing, making and trawing and talking, comapping	their teacher. s of both imaginary nts, people and art forms, e.g. moving d dramatic play,

Key Stage 1 National Curriculum Expectations

Design

Pupils should be taught to:

- 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

Pupils should be taught to:

- 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

Pupils should be taught to:

- · explore and evaluate a range of existing products;
- evaluate their ideas and products against design criteria.

Technical Knowledge

Pupils should be taught to:

- 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.

Cooking and Nutrition

Pupils should be taught to:

- use the basic principles of a healthy and varied diet to prepare dishes;
- · understand where food comes from.

Key Stage 2 National Curriculum Expectations

Design

Pupils should be taught to:

- 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

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.

Evaluate

Pupils should be taught to:

- · 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

Pupils should be taught to:

- · 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.

	Compone	nts: content and skills that	will be taught	
		YEAR 1		
	tumn	Spring	Summer	
Our School!	Let's Celebrate!		Animal Allsorts	
STRUCTURES: Build a new classroom chair	COOKING/ NUTRITION: Design and make a Christmas cookie		TEXTILES: Animal puppets	
		Outcome		
To design and build a new classroom chair for the school	To design and make a Christmas cookie		To design and make an animal puppet	
		Sequencing	·	
			sh and pencil comfortably; hold a pair of scissor	
have explored materia	ls for texture; used junk modelling 1.I can look at	to explore making somethin	g and talking about it; become aware of what is 1.I can look at other	on their face
examples of chairs What makes it strong? How is it joined? What materials are used and why? 2.I can generate many ideas as a group 3.I can design my own classroom chair and say how I am going to join the different parts 4.I can explore different materials for strength, joining and flexibility 5.I can make my classroom chair 6.I can evaluate my classroom chair against the design criteria	different cookies What are their textures? Colour? Ingredients etc? 2.I can look at taste and discuss recipes to make cookies 3.I can design my own cookie and explain how I will make it with pictures and key words 4.I can make my cookie following instructions hygiene rules 5.I can evaluate my cookie 6. I can price my cookie, market it and sell it at the Christmas Fayre	Vocabulary	animal puppets What materials are used? Why? What do you like? Why? What joins are being used? What stitches can you see? 2.I can design my own animal puppet 3.I can practice joining materials in different ways 4.I can add decoration to my puppet design 5.I can make my animal puppet 6.I can evaluate my animal puppet	

Tier 1: Classroom chair, Roll, Pinch, Flatten, Joining Tier 2: Design, Stiffening, Flexible, Strength	Tier 2: Instruction	: Hygiene, ctions, Taste,						Join, Glue Tier 2: St	itches, Decoration esign,	et,		
Tier 3: Sculpture, Evaluate, Improve		ve, Texture, cost										
				Skills pro	ogressio	n						
Design		Make			luate			hnical Kn		+	ing & Nut	
-use their knowledge of existing products and thown experience to help generate ideas as a groudesign products explain how their products of the control of	eir up cts	-with support, follow plan or recipe lead b class teacher -begin to select from of hand tools and eq safely and hygienica -select from material textiles and compone according to charact -with help, measure mark out -assemble, join and materials or ingredie -manipulate fabrics i ways to create a deseffect -use a basic running -cut, peel and grate ingredients; weighing measuring ingredien -begin to use simple finishing techniques, decorations	a range uipment lly s, ents eristics and combine ents n simple sired stitch g and ts	-explore existi mainly through comparisons a written evalua -explain positi to improve for products -explore what products are realk about the start to make refine their exievaluate their ideas against design criteria	h discussion and simple tions ves and the existing materials made from the changes isting design their simp	deas and gn and	explori made : more s -talk al unders workin materi -exploi	oout and stand the sing character also character also character als	y can be iffer and art to mple istics of te products	different -underst comes fi animals -name a five grou -everyor 5 portion vegetabl start to e	where in the foods origin and that all food pand sort food ps se should east of fruit and explain why and prepare	nate from food or s into at at least d y and
Design and Tec	hnolo	oav- Year 1					1	2	3	4	5	6
Key Stage 1 Objectives						Let's celebrate!	Posting and places	How does your garden grow?	Animal allsorts!	To the recue!		
Design												
1 design purposeful users based on de		onal, appealing produ teria	ucts for the	emselves and o	ther	1	V	V			V	

2	generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology	V	V		V	
Make						
1	select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing)	$\sqrt{}$	√		V	
2	select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	$\sqrt{}$	$\sqrt{}$		$\sqrt{}$	
Evalu	ate					
1	explore and evaluate a range of existing products	√	V		√	
2	evaluate their ideas and products against design criteria	√	√		√	
Tech	nical knowledge					
1	build structures, exploring how they can be made stronger, stiffer and more stable.	V			√	
2	explore and use mechanisms (for example, levers, sliders, wheels and axles), in their products	$\sqrt{}$			V	
Cook	ing and Nutrition					
1	use the basic principles of a healthy and varied diet to prepare dishes		V			
2	understand where food comes from		√			

Summary of skills by end of year: explore previous examples with guidance from teacher; group discussion on design criteria; independent exploration of materials to investigate stiffness; talk through their drawings with guidance; understand origin of food; simple constructions using joining of materials with support

YEAR 2									
Autumn	Spring	Summer							
How has St Just changed?	Around the world	How do I get off the ground?							
COOKING/ NUTRITION: Design and make a fruit salad	STRUCTURES: Sculpture of a 3d bird	MECHANISMS: Moving toy							
	Outcome								
To design and make healthy fruit salad	To create a 3d bird sculpture	To design and make a moving toy							
	Sequencing & Skills Prog	gression							
Prior skills: Chn can talk about food they like and dislike Chn can talk about what a piece of fruit smells/ tastes/ feels like Chn to cut fruit with adult supervision	Prior skills: Chn can explore materials linked to stiffness Chn can test different materials suitable for the sculpture Chn can cut materials with adult support Chn can join some materials with masking tape	Prior skills: Chn can design a toy using a large group idea Chn can talk about how a toy moves in basic terms Chn can say why they like a toy Chn can discuss materials used for different toys							
1.I can look at examples of fruits What good groups can you see? What does each food group do for your body? 2.I can taste different fruits and explain which I like and why 3.I can design my own healthy fruit salad 4.I can make my own	1.I can look at examples of other 3d sculptures 2.I can look how different materials have been used for strength 3.I can look at and practice joining techniques 4.I can design my own 3d bird 5.I can make my own 3d bird 6.I can evaluate my structure against my initial criteria	1.I can look at moving toys What makes them move? What materials are being used? What components can you see? Can you label these on a diagram? 2.I can design my own moving toy for a particular age group 3.I can practice joining							

healthy fruit salad using correct cutting techniques 5.I can evaluate my own healthy fruit salad							different materials 4.I can explore different materials depending on strengt flexibility etc 5.I can make my own moving toy 6.I can decorate my moving toy 7.I can evaluate my moving toy		
	ı				bulary		T ==		
Tier 1: Healthy, Balanced diet, Taste, Cut, Slice, Hygiene Tier 2: Design, Texture, Tier 3: Make, Evaluate, Diagram			Strength, Tier 2: M Shapes, Materials Joining Tier 3: M	, Rigid,			Tier 1: Moving toy, Decoration, Strength, Flexibility, Stiffness, Joining Tier 2: Lever, Diagram Axle, Design, Experiment Tier 3: Components, Evaluate, Make	,	
				Skills pr	ogression				
Design		Make			luate	Tec	hnical Knowledge		Cooking & Nutrition
-use their knowledge of existing products and the own experience to help generate ideas -design products that ha purpose -explain how their produlook and talk through annotated drawings -design simple models -test ideas -understand and follow simple design criteria	ve	-with support, follow plan or recipe -begin to select from of hand tools and educated and hygienical select from a range materials, textiles and components accordic characteristics with help, measure mark out characteristics or ingredied in manipulate fabrics in ways to create a design effect cuse a basic running cut, peel and grate	a a range quipment ally of and and combine ents n simple sired	-explore and existing product through discurce comparisons awritten evaluate explain position to improve for products explore what products are retalk about the start to make refine their explore and explore what products are refine their explore and explored which is a supplied to the explored which is a su	evaluate acts mainly ssions, and simple actions are existing and things are existing and from actions are changes and acting design are products and actheir simple	-build exploring made more substituting the substitution of the su	simple structures, ing how they can be stronger, stiffer and stable bout and start to stand the simple g characteristics of	-ex difficult color an -fo group -na five -ex 5 p veg sta	replain where in the world ferent foods originate from oderstand that all food mes from plants or imals od has to be farmed, own elsewhere or caught ame and sort foods into e groups veryone should eat at least portions of fruit and getables every day and art to explain why esign and prepare dishes

	ingredients; weighing and measuring ingredients -begin to use simple finishing techniques, such as decorations						
Des	sign and Technology- Year 2	1	2	3	4	5	6
	Stage 1 Objectives	How has St Just changed?		How do I get off the ground?		Around the world	
Desi	gn						
1	design purposeful, functional, appealing products for themselves and other users based on design criteria	V		1		1	
2	generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology	V		V		V	
Make							
1	select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing)	V		V		1	
2	select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	V		V		V	
Evalu							
1	explore and evaluate a range of existing products	√		V		V	
2	evaluate their ideas and products against design criteria	√		V			
Tech	nical knowledge						
1	build structures, exploring how they can be made stronger, stiffer and more stable.			V		V	
2	explore and use mechanisms (for example, levers, sliders, wheels and axles), in their products					√	
Cool	ring and Nutrition						
1	use the basic principles of a healthy and varied diet to prepare dishes	√					
2	understand where food comes from	$\sqrt{}$					

Summary of skills by end of year: explore previous examples with some guidance from teacher and developing small group design criteria with some support; independent exploration of materials to investigate stiffness, flexibility and qualities for various reasons; talk through their drawings with guidance and label resources needed; understand origin of food; prepare a simple dish with support; simple constructions using joining of materials with support with some knowledge of finishing qualities

		YEA	AR 3		YEAR 3									
Aut	tumn	Spri	ing	Sum	nmer									
Stone Age- Set in stone	Magnetism- What's the Attraction?			Romans										
STRUCTURES: Simple shelter for a hunter	ENTERPRISE Magnetic game			COOKING/ NUTRITION: Make bread for a Roman family Vegetable soup										
		Outo	ome											
To design and make a simple shelter for a hunter	To design and make a magnetic game to sell			To design and make Roman vegetable soup and bread										
		Sequencing & S	kills Progression											
Prior skills: Chn can explore and experiment with materials linked with texture, colour and stiffness Chn can finish a product with some final techniques Chn can join materials with some finishing techniques within small groups	Prior skills: Use their knowledge of existing products and their own experience to help generate ideas Design products that have purpose Explain how their products look and talk through annotated drawings Design simple models Test ideas Understand and follow simple design criteria			Prior skills: Chn can cut small fruit/ vegetables independently Chn can talk about where food comes from Chn can design a product through whole group discussions Chn can say what they did well and what they would improve and why										
1.I can look at examples of simple Stone Age shelters	I can look at examples of toys designed for children			1.I can look at different ingredients used back in the Roman days										

What do you notice? What materials are used and why? How are they joined? Which materials are best suited and why? 2.I can generate and design multiple ideas with labelled diagrams 3.I can practice joining materials 4.I can measure, mark and cut materials with some degree of accuracy 5.I can make my shelter 6.I can decorate my Stone Age shelter 7.I can evaluate my shelter						Do we still get these ingredients? Why? How do our soup recipes differ to backthen? Why? 2.I can taste different vegetables and breat and evaluate them of texture, colour, taste etc. 3.I can design and write my own recipe guide for making a Roman soup. 4.I can make my own Roman soup. 5.I can evaluate my own Roman soup.	k t ds n
			Voca	bulary			
Tier 1: Shelter, Stone Age, Materials, Joining Mark, Decorate, Design, Make, Cut Tier 2: Suitability Measure, Strengthen, Stiffen Tier 3: Accurate, Safety, Evaluate, Reinforce	Tier 1: Game, Magnetic, Cut, Shape Tier 2: Design, Make Stiffen, Product Tier 3: Enterprise Evaluate, Accuracy, Purpose					Tier 1: Romans, Ingredients, Recipe, Hygiene, Healthy, Balanced Diet, Cut, Temperature, Design Tier 2: Taste, Texture Appearance, Slice, Grate, Boil Tier 3:Make, Evaluate Improve, Purpose	,
				ogression			
Design	Make		Eva	luate		nical Knowledge	Cooking & Nutrition
products that will appeal -look at a range of existing	-identify the features of their products that will appeal -look at a range of existing products to help generate -select from a range of		- evaluate existing products, explaining the purpose of the product and whether it has -ex		-explain how levers create		-start to know when, where and how food in grown in the UK, Europe and the wider world

with a -expl of the -use comr -expl as a with a -test	ign appealing products a purpose lain how particular parts eir products work annotated sketches to municate ideas fore different initial ideas group before coming up final design out ideas elop and follow a simple ria	-place main stages of making in a logical order -learn to use a range of equipment safely and hygienically -measure and mark with growing confidence -cut, join and shape materials with some degree of accuracy -join textiles using a sewing technique -improve the final product	-explore why materials might be selected -alter plans depending on feed back and improvements needed -evaluate their product against their original design			ar sa -u in te -n cr kr -e m fo -p ap	nd cook a afely and hase a heat gredients mperature nashing, washing, greading are ade up of ods propriate	vhisking, rating, cutt nd baking it a healthy a balance gredients u	ish y cook trolling ing, / diet is of
Des	sign and Technol	oav- Year 3		1	2	3	4	5	6
	Stage 2 Objectives	<u> </u>		Set In Stone	What's The Attraction	Shake Rattle And Roll	Are Humans animal Too?	What did The Romans Do For Us?	Source to Sea
Desi									
1		op design criteria to inform the d t are fit for purpose, aimed at po		V	V			√	
2		del and communicate their idea I and exploded diagrams, proto	s through discussion, annotated types, pattern pieces and computer-	√	V			1	
Make	e								
1	example, cutting, shapir	ng, joining and finishing), accura		V	V			√	
2	select from and use a w	ider range of materials and com gredients, according to their fun	ponents, including construction	√				V	
Evalu									
1	= :	a range of existing products		√	$\sqrt{}$			√	
2	others to improve their w	vork	ign criteria and consider the views of	V	V			√	
3	the world	ents and individuals in design and	d technology have helped shape	V	√				
Tech	nical knowledge								
1		<u> </u>	nd reinforce more complex structure	S √	√				
2	understand and use medevers and linkages)	chanical systems in their produc	ts (for example, gears, pulleys, cams,		$\sqrt{}$				

purpose

-understand how to prepare

ideas

materials

3	understand and use electrical systems in their products (for example, series circuits incorporating switches, bulbs, buzzers and motors	V			
4	apply their understanding of computing to programme, monitor and control their products.				
Cool	ring and Nutrition				
1	understand and apply the principles of a healthy and varied diet			Х	
2	prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques			Х	
3	understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed			Х	

Summary of skills by end of year: explore previous examples with some guidance from teacher and begin developing individual design criteria with some support; independent exploration of materials to investigate stiffness, flexibility and qualities for various reasons; talk through their drawings through exploded diagrams and label resources needed; understand origin of food and reasons for this; prepare a simple dish with some support; simple constructions using a range of joining of materials with support with some good knowledge of finishing qualities

		YEA	AR 4		
Aut	tumn	Sp	ring	Sum	nmer
Digestive System- Where does my food go?	Were the Anglo- Saxons good for Britain?		lt's Electric!	Rainforests	
COOKING/ NUTRITION: Create a fruit smoothie that is good for the digestive system	TEXTILES: Embroider a tapestry based on the Bayeux Tapestry		ELECTRICAL SYSTEMS: Torches	STRUCTURES: Wire sculpture of an Amazon animal	
		Composit	e/ Outcome		
To design and create a fruit smoothie	To design and make an embroidered tapestry using applique		To design and make a torch.	To design and make a wire sculpture of an Amazon animal	
		Sequencing & S	kills Progression		
Prior skills: Chn can discuss origin of food and reasons for this Chn can slice, peel and crush food depending on need of recipe Chn can discuss criteria and design own Chn can evaluate their product and suggest next steps	Prior skills: Chn can map out their basic design for sewing Chn can thread a needle with support from an adult Chn can make decisions about the colours needed Chn can change direction when sewing		Prior skills: Chn can select tools and equipment and explain choices with growing confidence Chn can select from a range of materials Chn can use annotated sketches to communicate ideas Chn can explore different initial ideas as a group before coming up with final design Chn can test out ideas Chn can develop and follow a simple criteria	Prior skills: Chn can design and evaluate with links to a specific design criteria Chn can test different materials for stiffness, flexibility etc Chn to can experiment with joining techniques Chn can begin to develop their finishing techniques	
1. I can understand that vegetables and fruit grow in certain	1. I can look at the layout and design of the Bayeaux Tapestry		1. I can look at several torches and disassemble them to	1. I can look at examples of wire sculptures	

affected by climate 2. I can lost a flood tems and which are good for the 3 cla can create a design inspired by the 3. I can lost at the shelf the shelf that the shelf tha	seasons and is	2. I can practice a			understand ho	w they	How do they stand	
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products that will appeal -broad range of existing products to help generate ideas -design appealing products with a clear purpose -explain how particular parts of their products work -use annotated sketches to communicate ideas -explore different initial ideas before coming up with final design - explain choice of materials including functionality and aesthetic -test out ideas -develop and follow a simple criteria	tools and equipment and explain choices with growing confidence -select from a range of materials according to functionality and aesthetic -place main stages of making in a systematic order -learn to use a range of equipment safely and hygienically -measure and mark with growing confidence -cut, join, shape and score materials with some degree of accuracy -join textiles using a sewing technique -use a finishing technique to improve the final product	products, explaining the purpose of the product and whether it has been designed to meet the purpose -explore why materials might be selected -alter plans depending on feedback and improvements needed -evaluate their product against their original design	have both aesthetic p -strengthe reinforce c -explain h movemen	properties n, stiffen a complex s ow levers	and tructures	UK, Eu world -unders and co savour hygien -use a ingredi temper -mashi crushir kneadi -explai made u foods -prepar approp -measu ingredi	stand how ok a varie y dishes s ically heat sour ents whils rature ng, whisk ng, grating ng and ba n that a ha up of a ba re ingredia riate uten ure and w	safely and ree to cook st controlling ing, g, cutting, aking ealthy diet is lance of ents using esils reigh
Design and Technol	oav- Year 4		1	2	3	4	5	6
Key Stage 2 Objectives	<u> </u>		Where does our food go?	Were the Anglo- Saxons good for Britain?		Crime and Punishment: Gangsta Granny	Rainforests	
Design								

	Stage 2 Objectives	Where does our food go?	Were the Anglo- Saxons good for Britain?	Crime and Punishment: Gangsta Granny	Rainforests	
Desi	gn					
1	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		V	√	V	
2	generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design		V	$\sqrt{}$	V	
Make						
1	select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing), accurately	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	
2	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	V	V	V	V	
Evalu	ate					
1	investigate and analyse a range of existing products	√	√	√	√	
2	evaluate their ideas and products against their own design criteria and consider the views of others to improve their work	√	√	√	V	
3	understand how key events and individuals in design and technology have helped shape			$\sqrt{}$		

	the world					
Tech	nical knowledge					
1	apply their understanding of how to strengthen, stiffen and reinforce more complex structures		V	V	√	
2	understand and use mechanical systems in their products (for example, gears, pulleys, cams, levers and linkages)					
3	understand and use electrical systems in their products (for example, series circuits incorporating switches, bulbs, buzzers and motors			$\sqrt{}$		
4	apply their understanding of computing to programme, monitor and control their products.					
Cool	cing and Nutrition					
1	understand and apply the principles of a healthy and varied diet	V				
2	prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques	√				
3	understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed	1				

Summary of skills by end of year: explore previous examples with a little guidance from their teachers; developing individual design criteria with a little support; independent exploration of materials to investigate stiffness, flexibility and qualities for various reasons; talk through their drawings through exploded diagrams and label resources needed; understand how electricity is used in everyday appliances; understand origin of food and reasons for this and make selections based on this; prepare a simple dish with some independent skill; some complex constructions using a range of joining of materials with some good knowledge of finishing qualities

		YEAR 5									
Aut	umn	Spr	ing	Sun	nmer						
To the stars- Cosmic		Ancient Greeks		Indus Valley							
GEARS, LEVERS AND PULLEYS: To create a pop up book of the solar system		COOKING/ NUTRITION: Design and make Greek food for a family		STRUCTURE: Wire/ clay/ mod roc Indus Valley sculpture							
		Composite	e/ Outcome	l							
To design and make a pop up book of the solar system using gears, levers and pulleys		To design and make Greek food		To design and make an Indus Valley sculpture							
		Sequencing & S	kills Progression								
Prior skills: Chn can design a product linked to a general criteria Chn can experiment with materials linked to its quality, flexibility and stiffness Chn can create basic exploded diagrams to show plan Chn can evaluate with suggestions of next steps		Prior skills: Chn can make selections of ingredients based on their locality Chn can use a range of preparation techniques and give reasons Chn can design to a criteria Chn can test and evaluate, beginning to make their own choices		Prior skills: Chn can explore materials based on a set criteria Chn can explore a range of joining techniques with some support Chn can discuss their plan using an exploded diagram Chn can hone their finishing techniques							
1.I can analyse levers and pulleys 2.I can look at other examples of pop up		1.I can look at examples of Greek food What ingredients are		1.I can look at other sculptures What do you like/ not like? Why?							

the authors choices 3.I can design individual solar system pop ups using pulleys and levers 4.I can experiment with different materials for strength and flexibility 5.I can design my own solar system pop up book with exploded and labelled diagrams 6.I can make my own solar system pop up book 7.I can evaluate my own solar system pop up book			Why? What do about the texture, a 2.I can lo recipes 3.I can ge multiple Greek re a design exploded diagrams 4.I can sa hygienic Greek re	eroma etc? bok at Greek enerate designs for cipes against criteria with d and labelled s afely and ally make a cipe valuate my od			How is it stood up? What materials are strong, flexible, stiff Etc 2.I can explore materials with joinin and manipulation 3.I can generate multiple designs wit exploded, detailed a labelled diagrams 4.I can design and make my final sculpture 5.I can use finishing techniques to impro- and alter my designs 6.I can evaluate my sculpture based on the design criteria	g h nd	
					bulary				
Tier 1: Solar system, Book, Design, Make Tier 2: Levers, Gears, Pulleys, Join, Flexibility, Strength Tier 3: Purpose, Function, Replica, Exploded diagram Evaluate			Recipes, Step by s Instruction Tier 2: Hy Safety, C Slice, Gra Health, B Tier 3: Ex Purpose,	ygiene, chop, Cut, ate, Boil, salanced diet			Tier 1: Sculptures, Materials, Strengthen, Flexibility, Stiffen, Diagrams, 3D Tier 2: Joining, Cut, Mark, Measure, Grood Safety, Accuracy, Assemble Tier 3: Evaluate, Purpose, Function, Exploded diagram, Product		
					ogression				
Design Make Evaluate			luate	Technical Knowledge Cooking &					
-use research to inform a develop detailed design (innovative and appealing	ailed design steps analysis of other products how to strengthen, stiff				strengthen, stiffen	foc	now and give examples of od that is grown, reared d caught in the UK,		

exist ideas -desi spec -expl of the -anni-disc	w of a broad range of sing products to generate sign products with a sific purpose lain how particular parts eir products work otated sketches cuss ideas as a group come to a final design	and equipment; explaining their choices -select a range of materials according to functionality - create a guide -follow hygiene procedures -take measurements needed -cut a range of materials with growing precision and accuracy -shape and score with growing precision and accuracy -assemble, join, tape, pin, cut, shape and combine materials with growing accuracy	manufacture and fitness for purpose of their finished product -evaluate their finished product against their original design criteria	structures products -safety aw should und follow safety gea goggles, a hands and the saw bl hand-eye sawing red movement should have coordinated saw along understar measurem should be sh	areness: coderstand and ty rules who are approper, such as not to keep fingers cleade. coordinatiquires precess, so child we good had and to guide the intended derstand ents; such width of the y want to edge will he the wood and guide	hildren nd nen ould viate safety their ear of on: ise ren ind-eye the ed line ren as the e create. nelp	(present -underst availabili affect pla -prepare safely ar a heat so -adapt re taste, tex -measur growing recipe	anning rec and cook nd hygieni ource	w this may cipes a dish cally using pearance, aroma) ents with from a
De	sign and Technol	ogy- Vegr 5		1	2	3	4	5	6
	Stage 2 Objectives	ogy- ieuro		To the stars		Ancient Greeks		Indus Valley	
Desi									
1	use research and develo	op design criteria to inform the d	esign of innovative, functional,	V		V		V	
	appealing products that	are fit for purpose, aimed at po	ırticular individuals or groups						
2	sketches, cross-sectional computer-aided design	del and communicate their idea I and exploded diagrams, proto		V		V		√	
Mak									
1	example, cutting, shapir	ng, joining and finishing), accura		√		V		√	
2		ider range of materials and com	ponents, including construction ctional properties and aesthetic	√		V			

	qualities				
Evalu	ate				
1	investigate and analyse a range of existing products	$\sqrt{}$			
2	evaluate their ideas and products against their own design criteria and consider the views of others to improve their work	V	V	√	
3	understand how key events and individuals in design and technology have helped shape the world		√		
Tech	nical knowledge				
1	apply their understanding of how to strengthen, stiffen and reinforce more complex structures	V		√	
2	understand and use mechanical systems in their products (for example, gears, pulleys, cams, levers and linkages)	V			
3	understand and use electrical systems in their products (for example, series circuits incorporating switches, bulbs, buzzers and motors				
4	apply their understanding of computing to programme, monitor and control their products.				
Cool	ing and Nutrition				
1	understand and apply the principles of a healthy and varied diet		V		
2	prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques		√		
3	understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed		$\sqrt{}$		

Summary of skills by end of year: explore previous examples independently and suggest thoughts on product; develop individual design criteria; independent exploration of materials to investigate stiffness, flexibility and qualities for various reasons; talk through their drawings through detailed exploded diagrams and label resources needed; understand origin of food and reasons for this and make selections based on this; prepare a simple dish with independent skill and using a range of tools; some complex constructions using a range of joining of materials with some good knowledge of finishing qualities

	YEAR 6	
Autumn	Spring	Summer
Evolution & Inheritance		Beyond 1066- World War 2 & Battle of Britain
		1.COOKING/ NUTRITION: Wartime food
		2.MECHANISMS/ ELECTRICAL SYSTEMS: Moving World War 2 plane CAM mechanisms

Composito/ Ou	uitoomo	
Sequencing & Skills	1.To design and create 2.To create a moving W electrical systems and r	2.Prior skills: Chn can investigate previous toys and discuss what makes it work Chn can explore a range of mechanisms Chn can plan against a design criteria Chn can explore a range of materials linked to stiffness, flexibility etc Chn understand the
	1.Research rationed food during WW2 What ingredients were /were not readily available? Why? 2. Importance of food hygiene 3. Design & create a	electrical components 1. Look at and investigate a variety of moving toys. 2. Investigate CAM mechanisms 3. Investigate CAMS (eccentric, snail, drop, oval,) 4. Design criteria & developing ideas

					wartime cake 4. Evaluate a savory dish		5. Design specificating (finalise design) & please 6. Make 7. Evaluate		
		Vocabul	ary						
			<u>-</u>		Tier 1: War Time, Texture, Quantity, Health and Safety Tier 2: Hygiene, Rationing, Bridge, Savory Tier 3: Research,	Tier 1: CAM, Mechanism, Movement Tier 2: Axle / shaft, Rigidity, Snail CAM, Drop CAM, Dowel, Clamp, Hacksaw Tier 3: Linear motion,			
					Product, Implication		Trian Spec Prod	gulation,	Research, cation,
	•	Skills progre	ession	•					
Design		Evaluate		Technical Knowledge			Cooking & Nutrition		
-use research to inform and develop detailed design (innovative, functional, fit for purpose, target market and appealing) -know of a broad range of existing products to generate ideas -design products with a clear purpose -explain how particular parts of their products work -annotated sketches; crosssectional drawings and exploded diagrams -generate a range of ideas and come to a final design -consider costings of resources -independently plan and suggest next steps -select from a wide range of tools and equipment; explaining their choices -select a range of materials according to functionality and aesthetic - create a step-by-step guide -follow hygiene procedures -take exact measurements within 1 millimetre -cut a range of materials with precision and accuracy -shape and score with precision and accuracy -assemble, join, tape, pin, cut, shape and combine materials with accuracy -refine the finish to improve appearance		-complete a detailed competitor analysis of other products -critically evaluate quality, manufacture and fitness for purpose of their finished product -evaluate their finished product against their original design criteria (make any changes needed) -apply compumonito		how to sand rein structure products -underst process mechan systems -explain systems create napply the compution of the structure of the struc	rapply their understanding of now to strengthen, stiffen and reinforce complex structures to create useful products understand the 'input, process and output' of mechanical and electrical systems explain how mechanical systems such as CAMS create movement apply their understanding of computing to program, monitor and control a product (in a conduct)		know, explain and give examples of food that is rown, reared and caught in the UK, Europe and wider world (present and past) understand about evailability and how this may effect planning recipes understand that food is erocessed into ingredients or cooking erepare and cook a disher afely and hygienically using theat source eadapt and refine recipes appearance, taste, texture end aroma) ealter methods eneasure ingredients ccurately from a recipe endependently follow a ecipe		

Key	sign and Technology- Year 6 Stage 2 Objectives			World War 2/ Battle of Britain
Desi	gn			
1	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			V
2	generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design			V
Make				
1	select from and use a wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing), accurately			√
2	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			V
Evalu	ate			
1	investigate and analyse a range of existing products			$\sqrt{}$
2	evaluate their ideas and products against their own design criteria and consider the views of others to improve their work			√
3	understand how key events and individuals in design and technology have helped shape the world			√
Tech	nical knowledge			
1	apply their understanding of how to strengthen, stiffen and reinforce more complex structures			√
2	understand and use mechanical systems in their products (for example, gears, pulleys, cams, levers and linkages)			√
3	understand and use electrical systems in their products (for example, series circuits incorporating switches, bulbs, buzzers and motors			√
4	apply their understanding of computing to programme, monitor and control their products.			
Cook	ring and Nutrition			
1	understand and apply the principles of a healthy and varied diet			
2	prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques			√
3	understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed			√

Summary of skills by end of year: explore previous examples independently and suggest thoughts on product; develop individual design criteria linked to what they have seen; independent exploration of materials to investigate stiffness, flexibility and qualities for various reasons; talk through their drawings through detailed exploded diagrams and label resources needed; understand origin of food and reasons for this and make selections based on this; prepare a simple dish with independent skill and using a range of tools; weigh ingredients independently; complex constructions using a range of joining of materials with good knowledge of finishing qualities

SEND STATEMENT:

At St Just Primary School, we value each child's unique qualities and strengths. We have high aspirations and expectations for all children with Special Educational Needs and Disabilities (SEND) and strive to ensure that all SEND pupils make rapid and sustained progress from their starting point. We will strive to remove barriers to learning to ensure that all SEND pupils access, participate and engage with their learning therefore enabling them to fulfil their potential.