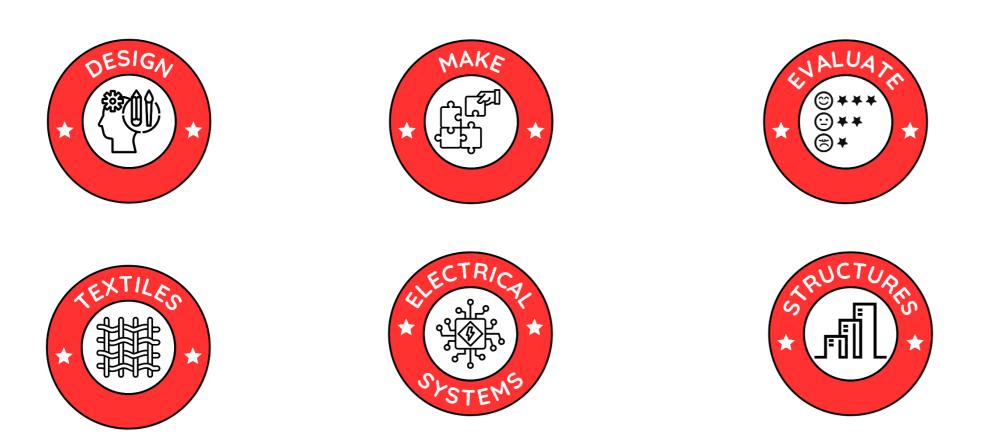


## St Keverne School Lizard Schools Curriculum Subject: Design Technology

We are committed to providing a curriculum that is underpinned by three essential drivers: aspiration, curiosity, and diversity. We aim to empower our learners to develop the knowledge, skills, and values they need to not only succeed in their education but also to become successful global citizens. Through our rigorously and consciously crafted curriculum, we teach clear sequences of enquiry-based learning encompassing the National Curriculum, reflecting the unique and special part of the world in which we live. We believe in helping our children flourish, realising their full potential, and fostering a caring and nurturing community where every child is valued.

#### **Our Design Technology Concepts**









	Curriculum Overview KS1	
	Key Stage 1 CYCLE 1	
AUTUMN	SPRING	
* CHANISION *	¢ RUCTURES ★ FIL ★	
Mechanisms: Sliders and Levers How can we make moving pages for Rosie's Walk?	Structures: Freestanding structures How can we make a strong, stable chair for The Tiger Who Came to Tea?	Food, C How can we ma pic
Lesson 1 – What existing products use sliders and levers? Lesson 2 – How do sliders and levers work? Lesson 3 – Can I design a moving page with a slider and lever? Lesson 4 – Can I use my design to make a moving page with a slider and lever? Lesson 5 – Is my final product successful? How do I know this?	Lesson 1 – What is a freestanding structure? Where can I find these? Lesson 2 – How do freestanding structures work?	Lesson 1 – What do w all li Lesson 2 – Which foo Lesson 3 – Which kito Lesson 4 – Can I desig



#### , Cooking and Nutrition nake healthy snacks for our class icnic in the woods?

we have as our snack in school? Do we
Il like the same snacks?
oods are healthy? How much should we have in a snack?
sitchen tools will I need to use? How do I use these safely?
sign a healthy snack for our class picnic?
se my design to make a healthy snack?

| product successful? How do I know this?

	Key Stage 1 CYCLE 2						
AUTUMN	SPRING	SU					
× 1000	* CHANISISS * CHANISISS						
Food, Cooking and Nutrition How can we make a healthy bowl of soup for The Lighthouse Keeper?	Mechanisms: Wheels and Axles How do we make a trolley to take our tools to the garden?	Textiles: Template How can we design for c					
Lesson 1 – What are our favourite soups? What do they taste like? Lesson 2 – Which foods are healthy? Can all healthy foods go in a soup? Lesson 3 – Which kitchen tools will I need to use? How do I use these safely? Lesson 4 – Can I design a healthy soup for the Lighthouse Keeper? Lesson 5 – Can I use my design to make a healthy bowl of soup? Lesson 6 – Is my final product successful? How do I know this?	Lesson 1 – What existing products use wheels and axels? Lesson 2 – How do wheels and axels work? Lesson 3 – Can I design a moving trolley with wheels and axels? Lesson 4 – Can I use my design to make a moving trolley with wheels and axels? Lesson 5 – Is my final product successful? How do I know this?	Lesson 1 – Where can w typ Lesson 2 – How de Lesson 3 – Can I design Lesson 4 – Can I use Lesson 5 – Is my final pr					



#### tes and Joining Techniques In and make a meerkat puppet Ir a class play?

we find puppets? Are there different ypes of puppet? do templates and joins work? in a meerkat puppet using templates and joins? ise my design to make a meerkat puppet? product successful? How do I know this?

	Curriculum Overview KS2	
	Key Stage 2 CYCLE 1	
AUTUMN	SPRING	
* CHANISIS	* EXTILES	
Mechanisms: Levers and Linkages How can we make a Christmas card with moving parts?	Textiles : 2-D shape to 3-D product How can we make a jewellery pouch for a trader or raider?	Food, How can we mak
Lesson 1 – What existing Christmas cards have moving parts? Lesson 2 – Which existing products are the most popular in our class? Lesson 3 – How do levers and linkages work? Lesson 4 – Can I design a Christmas card with moving parts? Lesson 5 – Can I use my design to make a Christmas card with moving parts? Lesson 6 – Is my final product successful? How do I know this?	there different types? Lesson 2 – Which existing products are the most popular in our class? Lesson 3 – Which skills will I need to use to work with textiles? Lesson 4 – Can I design a jewellery pouch using textiles? Lesson 5 – Can I use my design to make a jewellery pouch	Lesson 1 – Which foo for runner Lesson 2 – Which ex Lesson 3 – Which kitc Lesson 4 – Can I de Lesson 5 – Can I use n
		Lesson 6 – Is my final p



#### , Cooking and Nutrition Ike a healthy snack for a marathon runner?

oods are most suitable to release energy ers during long distance runs? existing products are the most popular in our class? tchen utensils will I need to use? How do I use these safely? design a healthy snack for a marathon runner? e my design to make a healthy snack for a marathon runner? al product successful? How do I know this?

	Key Stage 2 CYCLE 2					
AUTUMN	SPRING	SU				
KLECTRIC * PER * PER * SUBJECTRIC * * SUBJECTRIC * * * SUBJECTRIC * * * * * * * * * * * * *	* III *					
Electrical Systems: Simple Circuits and Switches How can we make a night-light for family member?	Structures: Frame structures How can we make a strong WWII shelter for a family?	Food, Coo Gan Kernow! How Cornish				
Lesson 1 – What is a night light? Which types of night light are currently available? Lesson 2 – Which existing products are the most popular in our class? Lesson 3 – How do circuits and switches work? Lesson 4 – Can I design a night light using a circuit and a switch? Lesson 5 – Can I use my design to make a night light with a circuit and a switch? Lesson 6 – Is my final product successful? How do I know this?	Lesson 1 – What is a frame structure? Where can I find these? Lesson 2 – How do shelters work? Lesson 3 – Can I design a strong family shelter using a frame structure? Lesson 4 – Can I use my design to make a strong family shelter using a frame structure? Lesson 5 – Is my final product successful? How do I know this?	Lesson 1 – Which ingred tea? What Lesson 2 – Which types Lesson 3 – Which kitche do I u Lesson 4 – Can I des Lesson 5 – Can I use aft Lesson 6 – Is my final pro				



#### ooking and Nutrition w can we make a traditional sh afternoon tea?

gredients make a Cornish afternoon hat do these taste like? bes of scone are the most popular in our class? chen utensils will I need to use? How I use these safely? design a Cornish afternoon tea? use my design to make a Cornish afternoon tea? product successful? How do I know

this?

	Key Stage 2 CYCLE 3	
AUTUMN	SPRING	S
* III *	× €000	
Structures: Shell structures (CAD)	Food, Cooking and Nutrition	Electrical s
How can we use CAD to design wrapping paper and packaging for a present?	How can we make a bread based lunch with a filling such as a wrap, sandwich, blini or toastie?	How can we ma
Lesson 1 – What types of wrapping paper / packaging are currently on the market? Lesson 2 – Which existing products are the most popular in our class? Lesson 3 – How does CAD design work? Lesson 4 – Can I design packaging for a present using CAD? Lesson 5 – Can I use my design to make packaging for a present using CAD? Lesson 6 – Is my final product successful? How do I know this?	Lesson 1 – Which bread based lunches do we eat? What are the different ingredients? Lesson 2 – Which existing products are the most popular in our class? Lesson 3 – Which kitchen utensils will I need to use? How do I use these safely? Lesson 4 – Can I design a bread based lunch? Lesson 5 – Can I use my design to make a bread based lunch? Lesson 6 – Is my final product successful? How do I know this?	Lesson 1 – What is the these Lesson 2 – Which type when alte Lesson 3 – H Lesson 4 – Can I des Lesson 5 – Can I use m Lesson 6 – Is my final pr



#### systems: (micro:bits)

# nake an alarm to alert us to invaders?

ne purpose of an alarm? Where are e commonly used? be of alarm would be most suitable altering us of invaders? How do micro:bits work? How do micro:bits work? design an alarm using micro:bits? my design to make an alarm using micro:bits? product successful? How do I know this?

	Key Stage 2 CYCLE 4	
AUTUMN	SPRING	SU
<ul> <li>★ 000</li> <li>★ €000</li> </ul>	* EXTLLES	
Food, Cooking and Nutrition How can we make Fair Trade muffins or smoothies?	Textiles Combining different fabric shapes (including CAD)	Mechanisms: F pn How can we make
Lesson 1 – What does Fair Tade mean? Why is it important? Lesson 2 – Which existing products are the most popular in our class? Lesson 3 – Which kitchen utensils will I need to use? How do I use these safely? Lesson 4 – Can I design a fair trade muffin? Lesson 5 – Can I use my design to make a fair trade muffin? Lesson 6 – Is my final product successful? How do I know this?	How can we make a belt for gardening tools? Lesson 1 – What is the function of gardening belt? Are there different types? Lesson 2 – Which existing products are the most popular in our class? Lesson 3 – Which skills will I need to use to work with textiles? Lesson 4 – Can I design a belt which holds different gardening tools? Lesson 5 – Can I use my design to make a belt which holds different gardening tools? Lesson 6 – Is my final product successful? How do I know this?	<u>History</u> : Who were the live? 7 Lesson 1 – What is a co Lesson 2 – Which existing C Lesson 3 – How do po Lesson 4 – Can I design o Lesson 5 – Can I use my pulleys, g Lesson 6 – Is my final pro



s: Pulleys, gears or cams; pneumatics. ake a catapult to hurl a .....?

#### e the Vikings and how did they ? 793 - 1050 AD

a catapult and how do they work? ing products are the most popular in our class? o pulleys, gears and cams work? gn a catapult with pulleys, gears and cams? my design to make a catapult with ys, gears and cams? product successful? How do I know this?

KS1 Skills Coverage	Cycle 1 Autumn	Cycle 1 Spring	Cycle 1 Summer	Cycle 2 Autumn	Cycle 2 Spring	Cycle 2 Summer
★ CESIGA						
× بلکی جنگ						
¢ DLU47 © *** * © *** * © *** * *						
		E IN				
× EXTILES * *						E II
*			E II	E IN		
* CHANISta	E IN				EIN	
tecTRICT ★ tectrict tec						

KS2 Skills Coverage		Cycle 1 Spring	Cycle 1 Summer	Cycle 2 Autumn	Cycle 2 Spring	Cycle 2 Summer	Cycle 3 Autumn	Cycle 3 Spring	Cycle 4 Summer	Cycle 4 Autumn	Cycle 4 Spring	Cycle 4 Summer
* CESIGA												
<b>ALUA</b> ★												
S RUCTURES						EIN	EIRO					
*		E IN									EIRO	
× 000			E JE		E-II			FIRE		EIRO		
* CHANIS	E IN											E.M

* Sectricy			
STEPAS			