



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	SUMMER						
* CHANISA * COLOR	* FII *	* 6000						
Mechanisms: Sliders and Levers	Structures: Freestanding structures	Food, Cooking and Nutrition						
How can we make moving pages for Rosie's Walk?	How can we make a strong, stable chair for The	How can we make healthy snacks for our class						
	Tiger Who Came to Tea?	picnic in the woods?						
Lesson 1 – What existing products use sliders and levers?								
Lesson 2 – How do sliders and levers work?	Lesson 1 – What is a freestanding structure? Where can I find							
Lesson 3 – Can I design a moving page with a slider and	these?	all like the same snacks?						
lever?	Lesson 2 – How do freestanding structures work?	Lesson 2 – Which foods are healthy? How much should we						
Lesson 4 – Can I use my design to make a moving page with		have in a snack?						
a slider and lever?	sit on when he comes to tea?	Lesson 3 – Which kitchen tools will I need to use? How do I						
Lesson 5 – Is my final product successful? How do I know this?	Lesson 4 – Can I use my design to make a freestanding chair							
	for the tiger?	Lesson 4 – Can I design a healthy snack for our class picnic?						
	Lesson 5 – Is my final product successful? How do I know this?							
		Lesson 6 – Is my final product successful? How do I know this?						

Key Stage 1 CYCLE 2								
AUTUMN	SPRING	SUMMER						
* 6000	* CHANISAS *	* CEXTLES						
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: Templates and Joining Techniques How can we design and make a meerkat puppet for a class play?						
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 we find puppets? Are there different types of puppet? Lesson 2 – How do templates and joins work? Lesson 3 – Can I design a meerkat puppet using templates and joins? Lesson 4 – Can I use my design to make a meerkat puppet? Lesson 5 – Is my final product successful? How do I know this?						

Curriculum Overview KS2

Key Stage 2 CYCLE 1								
AUTUMN	SPRING	SUMMER						
* CHAN/SA	* EXTILES	* (FOOD						
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, Cooking and Nutrition Gan Kernow! How can we make a traditional Cornish afternoon tea?						
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 ingredients make a Cornish afternoon tea? What do these taste like? Lesson 2 – Which types of scone 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 Cornish afternoon tea? Lesson 5 – Can I use my design to make a Cornish afternoon tea? Lesson 6 – Is my final product successful? How do I know this?						

Key Stage 2 CYCLE 2								
AUTUMN	SPRING	SUMMER						
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Electrical Systems: Simple Circuits and Switches How can we make a night-light for family member?	Food, Cooking and Nutrition How can we make a healthy snack for a marathon runner?	Structures: Frame structures How can we make a strong Bronze Age roundhouse?						
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 – Which foods are most suitable to release energy for runners during long distance runs? 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 healthy snack for a marathon runner? Lesson 5 – Can I use my design to make a healthy snack for a marathon runner? 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 frame structures work? Lesson 3 – Can I design a strong Bronze Age roundhouse using a frame structure? Lesson 4 – Can I use my design to make a strong Bronze Age roundhouse using a frame structure? Lesson 5 – Is my final product successful? How do I know this?						

	Key Stage 2 CYCLE 3				
AUTUMN	SPRING	SUMMER			
Structures: Shell structures (CAD)	Food, Cooking and Nutrition	Electrical systems: (micro:bits)			
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 make an alarm to alert us to invaders?			
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 purpose of an alarm? Where are these commonly used? Lesson 2 – Which type of alarm would be most suitable when altering us of invaders? Lesson 3 – How do micro:bits work? Lesson 4 – Can I design an alarm using micro:bits? Lesson 5 – Can I use my design to make an alarm using micro:bits? Lesson 6 – Is my final product successful? How do I know this?			

Key Stage 2 CYCLE 4 **AUTUMN SPRING SUMMER** Mechanisms: Pulleys, gears or cams; **Textiles** Food, Cooking and Nutrition Combining different fabric shapes (including pneumatics. How can we make a catapult to hurl a? How can we make Fair Trade muffins or CAD) smoothies? History: Who were the Vikings and how did they How can we make a belt for gardening tools? Lesson 1 – What does Fair Tade mean? Why is it live? 793 - 1050 AD important? Lesson 1 – What is the function of gardening belt? Are Lesson 2 – Which existing products are the most popular in Lesson 1 – What is a catapult and how do they work? there different types? Lesson 2 – Which existing products are the most popular in our class? Lesson 2 – Which existing products are the most popular in Lesson 3 – Which kitchen utensils will I need to use? How our class? our class? do I use these safely? Lesson 3 – How do pulleys, gears and cams work? Lesson 3 – Which skills will I need to use to work with Lesson 4 – Can I design a fair trade muffin? textiles? Lesson 4 – Can I design a catapult with pulleys, gears and Lesson 5 – Can I use my design to make a fair trade cams? Lesson 4 - Can I design a belt which holds different Lesson 5 – Can I use my design to make a catapult with muffin? gardening tools? Lesson 6 – Is my final product successful? How do I know pulleys, gears and cams? Lesson 5 – Can I use my design to make a belt which this? Lesson 6 – Is my final product successful? How do I know holds different gardening tools? this? Lesson 6 – Is my final 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
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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
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