

Science in the Early Years Foundation Stage at Trewidland

At Trewidland Primary School, we ensure our children in EYFS are prepared for the National Curriculum. The learning within the EYFS curriculum forms the beginning steps of learning linked to our spiral curriculum of concepts. This sits within the EYFS curriculum early learning goal 'The Natural World;'

Explore the natural world around them, making observations and drawing pictures of animals and plants.

Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.

Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.

Our Concepts:

Evolution: Children learn about how they grow and change over time. They compare themselves from being a baby to the current day. Children plant seeds and observe how they grow.

Chemistry: Children take part in play based activities that explore chemical process, e.g. melting chocolate and making ice lollies. Children learn about materials when exploring the three little pigs houses.

Ecosystems: Children find about animals from hot and cold countries and learn about how their environments support them. Children learn how to maintain a healthy lifestyle through diet and exercise.

Energy: Children learn about their senses and use them to explore the world around them.

Forces: Children engage in play based activities which explore simple forces, e.g. playing with magnets and building car ramps. Children learn about how gravity on Earth pulls things down during their space topic.

Living things (cells): Children learn about how to keep their teeth clean and the importance of going to the dentist.

Please see below experiences that are provided within each topic to support development of children's scientific skills, knowledge and conceptual understanding.

Year A	Autumn 1 The Three Little Pigs	Autumn 2 Space	Spring 1 Ice and Snow	Spring 2 Animals around the world	Summer 1 Transport	Summer 2 Looking after ourselves and others
Evolution	Changes from baby to age 4			Planting seeds and observing growth		
Vocabulary	Baby, toddler, child, adult			Seed, root, stem, leaf, flower, soil		
Chemistry	Materials - straw, sticks and bricks	Melting chocolate	Making ice lollies			
Vocabulary	Material, straw, wood, brick.	Temperature, melt, hard, solid, liquid	Temperature, cold, freeze, liquid, solid			
Ecosystems				Animal homes - hot and cold places		Keeping healthy - food and exercise

Vocabulary				Habitat, food, shelter		Healthy, food, heart, lungs, exercise, blood
Energy					Using our senses	
Vocabulary				British Science Week	Senses, sight, smell, hearing, touch, taste	
Forces		Gravity on Earth	Playing and building with magnets		Building ramps for cars	
Vocabulary		Space, Planet, Earth, Gravity, force, Astronaut	Force, magnet, material, metal		Force, Gravity, push, pull	
Living things (cells):						Going to the dentist
						Teeth, clean, cavity, toothbrush, toothpaste, healthy

Year B	Autumn 1 Going on Safari	Autumn 2 Care for One and All	Spring 1 Out and About	Spring 2 The Great Fire of London	Summer 1 Lovely Liskeard	Summer 2 Castles
Evolution	Changes from baby to adult in animals	Caring for ourselves				
Vocabulary	Growing Baby Young Old Kitten/cat Puppy/dog	Water Brushing teeth Healthy foods Unhealthy foods Sleep washing				
Chemistry						Use of everyday materials
Vocabulary						Sink Float Wood Plastic Metal Glass Brick Adjectives e.g. Hard, soft
Ecosystems			Growing plants		Where animals live	
Vocabulary			Seed Leaves Growing Water Sun Flower	British Science Week	Alive or not alive Rainforest Desert Wood Ocean Wet	

			Petals		Dry damp	
Energy						
Vocabulary						
Forces						
Vocabulary						
Living things (cells):						