

Oakfield Primary School Science Long Term Plan

EYFS: Understanding the World

Understanding the world involves guiding children to make sense of their physical world and their community. The frequency and range of children's personal experiences increases their knowledge and sense of the world around them – from visiting parks, libraries and museums to meeting important members of society such as police officers, nurses and firefighters. In addition, listening to a broad selection of stories, non-fiction, rhymes and poems will foster their understanding of our culturally, socially, technologically and ecologically diverse world. As well as building important knowledge, this extends their familiarity with words that support understanding across domains. Enriching and widening children's vocabulary will support later reading comprehension.

Term	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Autumn	Plants	Use of Everyday	Rocks	Sound	Living Things and Their	Animals Including Humans
	Knowledge of common wild	Materials	Knowledge of grouping	Knowledge of how sounds are	Habitats	Knowledge of the circulatory
	and garden plants and	Knowledge of suitability	rocks by property, fossil	made and how they travel,	Knowledge of differences	system; impact of diet, exercise,
	basic structure of	of everyday materials	formation and how soil is	pitch, volume and the effect	in the life cycles and the	drugs and lifestyle and nutrient
	flowering plants/trees.	for particular uses and	formed.	of distance of sound sources	life processes of	transportation.
		how the shape of some		on volume.	reproduction.	
	Seasonal Changes	solid objects can be	Forces and magnets			Electricity
	Knowledge of changes,	changed.	Knowledge of how things	Electricity	Forces	Knowledge of circuit symbols,
	weather and day length		move on difference	Knowledge of appliances that	Knowledge of gravity, the	component variation and effect of
	across the four seasons.	Living Things and Their	surfaces, magnets and	run on electricity, series	effects of resistances	changes to power source (cells).
		Habitats	magnetism of materials.	circuit and parts, circuit as a	and use of mechanisms	
		Knowledge of living, dead		loop, effect of a switch and	effect on forces.	
		and never alive, habitats,		electrical conductors and		
		plants and animals in		insulators.		
		their habitats and how				
		animals obtain food.				
Spring	Everyday Materials	Animals Including	Animals Including Humans	Animals Including Humans	Properties and Changes	Living Things and Their Habitats
	Knowledge of difference	Humans	Knowledge of nutrition and	Knowledge of digestive	of Materials	Knowledge of living thing
	between an object and its	Knowledge of offspring	the function of skeletons	system, teeth and food	Knowledge of comparing	classification characteristics
	material, names of	which grow, basic needs	and muscles.	chains.	and grouping materials;	(including plants animals and
	everyday materials and	of animals and	Plants		dissolving and recovering	microorganisms) and reasons for
	their properties and	importance of exercise, diet and hygiene for			in a solution; separating mixtures; use of materials	classifying based on characteristics.
	grouping everyday materials based on	humans.	Knowledge of parts of			characteristics.
		numans.	flowering plants, requirements for life,		and changes in materials: reversible/irreversible.	Light
	physical properties.		water transportation and		reversible/irreversible.	Knowledge of how light travels, how
	Seasonal Changes		the part of flowers in life			light enables objects to be seen by
	Knowledge of changes,		cycle.			the human eye and how it
			cycle.			1
						de remines me shape of shadows.
	weather and day length across the four seasons.		,			determines the shape of shadows.



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Summer	Animals Including Humans Knowledge of common animals and their structure including fish, amphibians, reptiles and mammals; common mammals: carnivore, herbivore and omnivore and parts of the human body related to senses. Plants Knowledge of common wild and garden plants and basic structure of flowering plants/trees. Seasonal Changes	Plants Knowledge of how seeds and bulbs grow and how plants need water, light and suitable temperature to stay healthy.	Light Knowledge of need of light to see, reflection, danger of direct sunlight and how shadows are formed and change.	States of Matter Knowledge of solids, liquids and gases; change of materials based on temperatures and the water cycle. Living Things and Their Habitats Knowledge of ways of grouping living things, classification to group and classify and dangers of changing environments to living things.	Earth and Space Knowledge of movement of planets and the moon; spherical shape of the Sun, Moon and Earth and Earth's rotation in relation to Day and Night. Animals Including Humans Knowledge of the changes as humans develop to old age.	Evolution and Inheritance Knowledge of change in living things over time, traits passing to offspring and how adaption to environment may lead to evolution.
	Knowledge of changes, weather and day length across the four seasons.					