



Small School. Big Hearts. Big Ambitions

Science Long Term Plan

I pray that your love for each other will overflow more and more, and that you will keep on growing in knowledge and understanding. Philippians 1:9

Year A/C				
Term	EYFS	KS1	LKS2 (10 units total)	UKS2 (10 units total)
Autumn 1	Materials -What are things made out of?	Uses of Everyday Materials (identify and compare suitability)	Rocks and Soils (compare, describe and recognise)	Forces (gravity, resistance, friction, mechanisms)
Autumn 2	Humans - What are my body parts called?	Animals including humans (basic body parts and senses)	Electricity (appliances, simple circuits, switches, conductors, insulators)	Earth and Space (movement of the earth and moon, day and night)
Spring 1	Seasonal change - what are the seasons, what can we see in each season? Weather - Types of weather	Seasonal Changes (weather, observing change across the seasons)	Animals, including humans (digestion, teeth, food chains)	Properties and Changes to Materials (compare properties, mixing, dissolving, separating; reversible/irreversible changes)
Spring 2	Plants - observing plants and looking at what they need to grow	Plants (how they grow and what they need...) SCIENCE WEEK inc. extraordinary scientists	'Working Scientifically' skills focus SCIENCE WEEK inc. extraordinary scientists	'Working Scientifically' skills focus SCIENCE WEEK inc. extraordinary scientists



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Year A/C				
Summer 1	Life Cycles - Look at animals and their babies	Living things & their habitats (living things, habitats, dependence)	Light (darkness as the absence of light, reflection, forming and changing shadows, dangers of sunlight)	Living things and their habitats (life cycles of different animal groups, reproduction in some plant and animals)
Summer 2	Habitats - where do animals and humans live?	Animals, including humans (lifecycles, growth and change)	States of Matter (solids, liquids, gases, heating and cooling, melting points, evaporation/ condensation in the water cycle)	Light (how light travels, how we see things, shadows as having the same shape as the object that casts them)



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Year B/D				
Term	EYFS	KS1	LKS2	UKS2
Autumn 1	Seasonal change - naming the seasons and observing the seasons.	Everyday Materials (identify and group)	Forces and Magnets (movement on different surfaces, magnetic materials and forces, poles)	Animals, including Humans (circulatory system: heart, blood vessels and blood; impact of diet, drugs and lifestyle on bodily function; nutrient transport)
Autumn 2	Materials - look at what things are made from.	Animals, including Humans (identify and name animals, common animal groups and their structures)	Sound (vibrations, pitch, volume, distance from source)	Evolution and Inheritance (fossils as evidence of the past and an intro to variation, evolution and adaptation)
Spring 1	Plants - what do they need to grow, looking at different plants	Living things & their habitats (food chains and diet groups)	Animals Including Humans (nutrition, identification and purpose of skeletons and muscles)	Electricity (switches, brightness, volume, symbols and circuits)



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Year B/D				
Spring 2	Food- how do we get food?	Working Scientifically - Skills Focus SCIENCE WEEK - inc. sustainability	Working Scientifically - Skills Focus SCIENCE WEEK - inc. sustainability	Living things and their habitats (characteristics and classification of micro-organisms, plants and animals) Working Scientifically - Skills Focus SCIENCE WEEK - inc. sustainability
Summer 1	Animals - look at different animals that live on the farm	Plants (identify and describe)	Living things and their habitats (grouping, classifying environments)	Animals, including Humans (describing development and changes to old age. <i>Links to SRE in PSHE</i>)
Summer 2	Humans - how can we be healthy?	Animals including Humans (human diet /exercise/hygiene)	Plants (identify basic parts, requirements for life, transport of water, pollination, life cycle of flowering plants)	'Working Scientifically' - projects focus Designing an investigation, recording results presentation and feedback