Science Long Term Plan 2023-2024

Year group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
N	Talk about what they see through various science experiments.	Talk about how we change and how our family changes over time.	Explore how vehicles work. Look at pull/push vehicle toys	Explore and talk about different textures. Understand how we care for animals.	Plant seeds and care for plants. Understand life cycle of a plant and caterpillar.	Explore different forces, such as pushing boats under water and seeing how they pop back up. Thing about different materials and how they change, ie melting ice in the sun.
R	Woodland Animals Nocturnal Animals Trees Local Area Understand the effect of changing seasons on the natural world around them.	Local Area Changes in materials Understand the effect of changing seasons on the natural world around them.	Understand the effect of changing seasons on the natural world around them.	Changes in food (noticing and commenting on changes) Understand the effect of changing seasons on the natural world around them.	Understand the effect of changing seasons on the natural world around them.	Contrasting Localities: Recognise some environments that are different from the one in which they live. (Comparing Wrose with Africa) Understand the effect of changing seasons on the natural world around them.
1	Animals, including humans Five senses. Identify and label basic body parts.	Animals, including humans Sorting and classifying herbivores, omnivores and carnivores. What is a mammal, fish, amphibian and reptile? Comparing animals	Everyday materials Materials and their properties Identifying and sorting Exploring the properties and materials Performing tests: What is the best material for an umbrella?		Plants Grow plants from seeds Group and classifying Identify and describe basic plant structure. Deciduous and evergreen trees. Local plants and trees.	
	Seasonal changes Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length varies					

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2	Uses of everyday materials Comparing everyday materials Materials change shape by squashing, bending, twisting and stretching.		Animals, including humans Exercise and healthy living What animals and humans need to survive Importance for humans of exercise and nutrition.	Plants How seeds grow What plants need to live and grow	Living things and their habitats Differences between things that are living, dead, and things that have never been alive Habitats Early food chains
3	Animals, including humans Nutrition, linked to what we eat Skeletons and muscles	Forces and magnets Compare how things move on different surfaces. Magnetic poles. How magnets attract materials. Compare and group together a variety of everyday materials.	Rocks How rocks are formed Sorting and comparing different kinds of rocks Fossil formation Paleantologist Mary Anning Soil	Plants Function of different parts of flowering plants What different plants need to flourish Water transportation within plants. The part flowers play in the life cycle of flowering plants.	Light Sources of light Dangers of sunlight Shadows
4	Sound Sources, Vibration, Loud and faint, pitch, volume	States of matter Solids, liquids and gases Heating and cooling (no baking, etc). Evaporation and condensation.	Electricity Precautions of electricity. Simple circuits. Basic parts of a circuit. Switches. Common conductors and insulators.	Animals, including humans Digestive system. Teeth. Food Chains.	Living things and their habitats Local and wider environment Environments can change

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5	Living things and their	Forces	Earth and space	Properties and changes	Animals, including	Living things and their
	habitats	Gravity	Earth relative to the	of materials	humans	habitats
	Life cycles of a	Air resistance	sun.	Comparing and	Changes as humans	Birth, growth,
	mammal, an	Water resistance	Moon relative to the	grouping together	develop from birth to	development and
	amphibian, an insect	Friction	Earth.	everyday materials on	old age	reproduction
	and a bird.	Gears, pulleys, levers	Relationship between	properties.		in some plants and
		and springs	sun, earth and moon.	Dissolving		animals.
			Earth's rotation.	Evaporating		
			Day and night.	Filtering		
				Reversible and		
				irreversible changes		
				How chemists create		
				new materials (Spencer		
				Silver, who invented		
				the glue for sticky		
				notes)		
6	Light	Electricity	Evolution and inheritance Importance of fossils.		Living things and their	Animals including
	How light travels.	Representing simple			habitats	humans
	How we see things.	circuits using	Living things produce offspring of the same kind.		Classification of living	Circulatory system
	Shadows	recognised symbols.	Adaptation of plants and animals to their		things	Heart, blood vessels
	Reflection	Construct simple series	environment. Idea of evolution.		Vertebrates and	Impact of diet, exercise
		circuits.	Charles Darwin.		invertebrates	and drugs
		Design burglar alarm			Classifying reptiles,	Transport of nutrients
					amphibians, mammals,	through the body
					insects.	
					Carl Linnaeus	