## Science Long Term Plan 2021-2022

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
group								
N	Talk about what they see through various science experiments.	Visit to Buck woods to explore what happens in Autumn to the leaves etc. Plus how the weather changes. Talk about how we change and how our family changes over time.	Explore how vehicles work. Think about different occupations	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 Plants Local Area	Celebrations and Festivals Historical events	Neil Armstrong – 1 <sup>st</sup> man on the Moon Tim Peake – English Spaceman at the International Space Centre Helen Sharman	Changes in food	Historic Figure – The Queen	Contrasting Locality		
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						
2	Uses of everyday materials		Animals, including	Plants	Living things and their habitats			
	Comparing everyday materials		humans	How seeds grow	Differences between things that are living, dead,			

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	Materials change shape by squashing, bending, twisting and stretching.		Exercise and healthy living What animals and humans need to survive Importance for humans of exercise and nutrition.	What plants need to live and grow	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	
5	Living things and their habitats	Forces Gravity	Earth and space Earth relative to the	Properties and changes of materials	Animals, including humans	Living things and their habitats

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	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	Living things and their	Evolution and inheritance		Animals including		
	How light travels.	Representing simple	habitats	Importance of fossils.		humans		
	How we see things.	circuits using	Classification of living	Living things produce offspring of the same kind.		Circulatory system		
	Shadows	recognised symbols.	things	Adaptation of plants and animals to their		Heart, blood vessels		
	Reflection	Construct simple series	Vertebrates and	environment.		Impact of diet, exercise		
		circuits.	invertebrates	Idea of evolution.		and drugs		
		Design burglar alarm	Classifying reptiles,	Charles Darwin.		Transport of nutrients		
			amphibians, mammals,			through the body		
			insects.					
			Carl Linnaeus					