



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Reception	Let's Explore Children learn about the natural environment, naming and describing animals, plants and materials they find in the local environment.	Marvellous Machines Children explore the world and objects around them investigating vehicles and ramps and how machines are powered by electricity.	Long Ago Children learn about how they have grown and changed since they were babies, how the weather changes over the seasons.	Ready Steady Grow Children learn about food and farming including where food comes from, what plants and animals need to grow and survive and what constitutes a healthy lifestyle.	Animal Safari Children learn about the animals that live around the world, how to look after animals and the importance of caring for our local and global environments.	On the Beach Children learn about the living things that are found at a contrasting habitat (beach) and the importance of staying safe in the sun.	
Year 1 & Year 2	Uses of everyday materials Properties: transparent / opaque reflective / non reflective rough / smooth stretchy / stiff		Animals Including Humans (Y2) Know that animals/humans produce offspring, they have basic needs for survival and humans need exercise, to eat healthily and have good hygiene to stay healthy.	Y1/2 Plants (Y1/2) Name trees, know their structure and observe how they change.	Plants (Y1/2) Know their structure and grow fruit and/or vegetables from seeds, and know what conditions they need to stay healthy.	Living Things and their Habitats (Y2) Know all living things have certain characteristics and life processes that keep them alive and healthy and what it means to have never lived. Study plants & animals in local habitats / micro-habitats and how they depend on each other. Compare animals from different habitats.	
Seasonal Changes Observe and talk about changes in the weather and the seasons							
Year 3 & Year 4	Animals Including Humans (Y4) Know that animals and humans get nutrients from food they eat, know the main body parts associated with the digestive system and explore questions that help to understand their special functions.	States of Matter (Y4) Explore a variety of everyday materials and develop simple descriptions of the states of matter (solids hold their shape; liquids form a pool not a pile; gases escape from an unsealed container). Observe water as a solid, a liquid and a gas and observe the changes to water when it is heated or cooled.	Sound (Y4) Explore and identify the way sound is made through vibration in a range of different musical instruments from around the world; and find out how the pitch and volume of sounds can be changed in a variety of ways.	Electricity (Y4) Construct simple series circuits, trying different components, e.g. bulbs, buzzers, motors and switches, and use their circuits to create simple devices. Draw the circuit as a pictorial representation.	Living Things and their Habitats (Y4) Learn about plants and animals in their habitat observing how it changes over the year. Explore ways of grouping animals and non-flowering/ flowering plants. Begin to group vertebrate animals into; and invertebrates into snails and slugs, worms, spiders, and insects.		
Living Things and their Habitats (Y4) Learn about plants and animals in their habitat observing how it changes over the year.							
Year 5 & Year 6	Forces (Y5) Explore falling objects, ask questions about and explore the effects of air resistance by observing how different objects fall. Experience forces that make things begin to move, get faster or slow down and explore the effects of friction on movement, finding out how it slows or stops moving objects. Explore the effects of levers, pulleys and simple machines on movement.	Animals Including Humans (Y5/6) Puberty should be taught to Y5s as part of Physical Health and Mental wellbeing before this topic Draw a timeline to indicate stages in the growth and development of humans. Understand how the circulatory system enables the body to function and how to keep their bodies healthy and how their bodies could be damaged.	Properties and Changes of Materials (Y5) Properties of materials: Explore and compare the properties of a broad range of materials, including relating these to what they learnt about magnetism in Year 3 and about electricity in Year 4.	Earth and Space (Y5) Using a model of the Sun and Earth, explain day and night, know the importance of the Sun its planets. Know what the moon is and find out about the ways ideas about the solar system have developed.	Light (Y6) Build on the work on light in year 3, explore the way that light behaves, including light sources, reflection and shadows. Talk about what happens and make predictions.		



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Year 1 & Year 2	<p>Animals Including Humans (Y1) Understand how to take care of animals from their local environment and the need to return them safely after studying them, become familiar with the common names of some fish, amphibians, reptiles, birds and mammals, including pets and learn the names of the main body parts.</p>		<p>Uses of Everyday Materials (Y1/2) Properties: absorbent / non absorbent rigid / flexible shiny / dull hard / soft</p>		<p>Plants (Y1/2) Name, grow from seeds and bulbs and observe how flowers change, know their structure and what conditions they need to stay healthy.</p>	
<p>Seasonal Changes Observe and talk about changes in the weather and the seasons.</p>						
Year 3 & Year 4	<p>Animals including Humans (Y3) Continue to learn the importance of nutrition, how animals get nutrition from what they eat and know the main body parts associated with the skeleton and muscles and find out how different parts of the body have special functions.</p>	<p>Light (Y3) Explore what happens when light is reflected off a mirror or reflective surface, the importance of protecting our eyes from bright lights, understand how shadows are made, measure and find patterns in the way the sizes of shadows change.</p>	<p>Rocks (Y3) Linked with Geography work, investigate different kinds of rocks and soils in the local environment.</p>	<p>Forces and Magnets (Y3) Observe that magnetic forces can act without direct contact, unlike most forces, where direct contact is necessary and explore the behaviour and everyday uses of different magnets. Compare how objects move on different surfaces.</p>	<p>Plants (Y3) Know the parts of plants and their functions and investigate requirements for life and growth. Gather evidence of life cycles and the part flowers play in the life cycle of flowering plants including pollination, seed formation and dispersal.</p>	
Year 5 & Year 6	<p>Y5 Properties and Changes of Materials Changes of materials: Explore reversible changes and changes that are difficult to reverse</p>	<p>Living Things and their Habitats (Y5) Study and ask questions about the local environment throughout the year. Observe life-cycle changes in a variety of living things eg., plants in the vegetable garden or flower border, and animals in the local environment.</p>	<p>Living Things and their Habitats (Y6) Continue to learn about the classification system, grouping observed animals in groups and sub-groups and give reasons.</p>	<p>Evolution and Inheritance (Y6) This must be taught after Y5 LTH Know how living things on Earth have changed over time, how parental characteristics are passed on to offspring and how variation in offspring over time can make animals more or less able to survive in particular environments.</p>	<p>Electricity (Y6) Building on work in Y4, construct simple series circuits, to help answer questions about what happens when different components are added to the circuit. Represent a simple circuit in a diagram using recognised symbols.</p>	