



## Pirbright Village Primary School Curriculum Overview – Science

<b>'Working Scientifically' runs through all units and includes the 6 enquiry skills</b>			
<b>Living Things and their Habitats</b>	<b>Animals including Humans</b>	<b>Plants</b>	<b>Materials</b>
<b>Light</b>	<b>Rocks and Soils</b>	<b>Forces and Magnets</b>	<b>States of Matter</b>
<b>Electricity</b>	<b>Sound</b>	<b>Earth and Space</b>	<b>Evolution and Inheritance</b>

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year R</b>	Exploring objects and their properties Sorting animals and their habitats How to care for an animal Life cycles of butterflies or frogs The seasons Life cycle of a plant How to care for a plant					
<b>Year 1</b>	<b>Animals including humans:</b> <ul style="list-style-type: none"> <li>• <i>Body Parts</i></li> <li>• <i>The senses</i></li> </ul>		<b>Materials:</b> <ul style="list-style-type: none"> <li>• <i>Properties of common materials</i></li> <li>• <i>Insulators</i></li> <li>• <i>Floating and sinking</i></li> </ul>		<b>Plants:</b> <ul style="list-style-type: none"> <li>• <i>Identifying plants</i></li> <li>• <i>Features of a plant</i></li> </ul>	<b>Animals including humans:</b> <ul style="list-style-type: none"> <li>• <i>Animal groups</i></li> </ul>
	<b>Seasonal Changes:</b> <ul style="list-style-type: none"> <li>• <i>Observe changes in weather</i></li> <li>• <i>Observe changes in day length</i></li> </ul>					
<b>Year 2</b>	<b>Materials</b> <ul style="list-style-type: none"> <li>• <i>Comparing materials</i></li> <li>• <i>Changing the shape of materials</i></li> </ul>	<b>Living things and their habitats:</b> <ul style="list-style-type: none"> <li>• <i>Identify and sort animals</i></li> <li>• <i>Link animals to habitats</i></li> </ul>	<b>Living things and their habitats:</b> <ul style="list-style-type: none"> <li>• <i>Living, dead, never lived</i></li> <li>• <i>Fossils</i></li> </ul>	<b>Animals including humans:</b> <ul style="list-style-type: none"> <li>• <i>MRS GREN</i></li> <li>• <i>Basic needs of animals</i></li> <li>• <i>Food chains</i></li> </ul>	<b>Plants:</b> <ul style="list-style-type: none"> <li>• <i>Tree types and their features</i></li> <li>• <i>Life cycle of plants</i></li> <li>• <i>What plants need to grow</i></li> </ul>	

<b>Year 3</b>	<b>Rocks and Soils:</b> <ul style="list-style-type: none"> <li>Comparing</li> <li>Formation of soils</li> </ul>	<b>Light:</b> <ul style="list-style-type: none"> <li>Sun safety</li> <li>Shadows</li> <li>Light sources</li> <li>Reflections</li> </ul>	<b>Animals including humans:</b> <ul style="list-style-type: none"> <li>Different types of skeletons and muscles</li> <li>Nutrition and healthy diet</li> <li>Preservation – salt, freezing etc.</li> </ul>	<b>Plants:</b> <ul style="list-style-type: none"> <li>Flowers and seeds</li> <li>Water transport and functions of parts</li> </ul>	<b>Forces:</b> <ul style="list-style-type: none"> <li>Friction – movement on surfaces</li> <li>Magnets – poles, attraction and repulsion</li> <li>Magnetic materials</li> </ul>	
<b>Year 4</b>	<b>Electricity:</b> <ul style="list-style-type: none"> <li>Circuits</li> <li>Conductors and insulators</li> <li>Switches</li> </ul>	<b>States of Matter:</b> <ul style="list-style-type: none"> <li>water cycle</li> <li>solids, gases and liquids</li> <li>melting, freezing</li> </ul>	<b>Animals including humans:</b> <ul style="list-style-type: none"> <li>food groups</li> <li>teeth and digestion</li> <li>food chains and webs</li> </ul>	<b>Grouping living things:</b> <ul style="list-style-type: none"> <li>classification and groups</li> <li>changing environments (deforestation)</li> </ul>	<b>Sound:</b> <ul style="list-style-type: none"> <li>vibrations</li> <li>pitch and volume</li> <li>the ear</li> <li>sound through different materials</li> </ul>	
<b>Year 5</b>	<b>Earth &amp; Space:</b> <ul style="list-style-type: none"> <li>movement of planets around Sun</li> <li>movement of Moon around Earth</li> <li>Night and Day</li> <li>Seasons and Earth's axis</li> </ul>	<b>Properties &amp; Changes of Materials:</b> <ul style="list-style-type: none"> <li>Group according to properties</li> <li>Dissolving and reversible changes</li> <li>Filtering, sieving and evaporating</li> </ul>	<b>Living Things &amp; Their Habitats:</b> <ul style="list-style-type: none"> <li>Life cycles and life process of reproduction</li> </ul>	<b>Animals, Including Humans:</b> <ul style="list-style-type: none"> <li>Human life cycle and stages in life</li> </ul>	<b>Forces:</b> <ul style="list-style-type: none"> <li>levers, gears and pulleys</li> <li>friction, air and water resistance</li> <li>gravity and upthrust</li> </ul>	
<b>Year 6</b>	<b>Living Things:</b> <ul style="list-style-type: none"> <li>Types of microorganisms</li> </ul>	<b>Electricity:</b> <ul style="list-style-type: none"> <li>varying brightness of bulbs / loudness of buzzers</li> <li>switches</li> <li>circuit diagrams</li> </ul>	<b>Light:</b> <ul style="list-style-type: none"> <li>How light travels in straight lines from a source</li> <li>Reflections</li> <li>The eye</li> </ul>	<b>Animals Including Humans:</b> <ul style="list-style-type: none"> <li>organs and their functions</li> <li>circulatory system</li> <li>healthy lifestyles</li> </ul>	<b>Evolution &amp; Inheritance:</b> <ul style="list-style-type: none"> <li>Fossils</li> <li>Changes in living things over time</li> <li>Genetic variations</li> </ul>	<b>Living Things:</b> <ul style="list-style-type: none"> <li>Classifying / animal groups</li> </ul>

					<ul style="list-style-type: none"><li>• <i>Adaptions to environments</i></li><li>• <i>Charles Darwin</i></li></ul>	
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