



Oakfield Primary School Medium Term Plan- Science - Autumn Term

EYFS: Understanding the World

Understanding the world involves guiding children to make sense of their physical world and their community. The frequency and range of children's personal experiences increases their knowledge and sense of the world around them - from visiting parks, libraries and museums to meeting important members of society such as police officers, nurses and firefighters. In addition, listening to a broad selection of stories, non-fiction, rhymes and poems will foster their understanding of our culturally, socially, technologically and ecologically diverse world. As well as building important knowledge, this extends their familiarity with words that support understanding across domains. Enriching and widening children's vocabulary will support later reading comprehension.

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>To know what a plant is.</p> <p>To know where you can find plants.</p> <p>To know the names of a variety of common, wild and garden plants.</p> <p>To know the terms petal, stem, leaf and root of a plant and can label these.</p> <p>To know how to identify trees from their leaves. To know if trees are deciduous or evergreen</p> <p>To know the terms roots, trunk, branches and leaves of a tree and can label these.</p> <p>To know the types of weather associated with each season.</p> <p>To know that a changing</p>	<p>To explore and compare the differences between things that are living, dead, and things that have never been alive.</p> <p>To use observations and ideas to explain how something is living, dead or has never been alive.</p> <p>To identify and name a variety of plants and animals in their habitats, by mapping a habitat and identifying its inhabitants.</p> <p>To identify and name plants and animals in their habitats, including microhabitats by identifying mini beasts in microhabitats</p> <p>To identify that most living things live in habitats to which they are suited and how different habitats provide</p>	<p>To know how to identify naturally occurring rocks and explore their uses.</p> <p>To know how to group rocks according to their characteristics.</p> <p>To know how to plan, carry out and evaluate experiments to compare rocks.</p> <p>To know how to identify the different igneous, sedimentary and metamorphic rocks.</p> <p>To know how to explore what fossils are and how they are formed.</p> <p>To know how to identify fossilised remains.</p> <p>To know what forces are and notice that some forces need contact between two</p>	<p>To know how sounds are made.</p> <p>To understand how sound travels.</p> <p>To know how we hear sounds.</p> <p>To understand pitch and amplitude.</p> <p>To understand how to create a musical instrument with changing pitch & amplitude.</p> <p>To know which materials absorb sound.</p> <p>To know how to identify common appliances that run on electricity.</p> <p>To understand how to construct a simple circuit and make predictions</p> <p>To understand how a switch</p>	<p>To know and describe the life process of reproduction in some plants and animals.</p> <p>To know and describe the life process of reproduction in some plants and animals</p> <p>To know and describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.</p> <p>To understand and describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.</p> <p>To understand and describe the process of reproduction and the life cycle of a mammal by exploring Jane Goodall's work with chimpanzees.</p> <p>To understand the way</p>	<p>To know how to identify and name the main parts of the human circulatory systems</p> <p>To know how to describe the function of the heart, blood vessels and blood.</p> <p>To understand and demonstrate the impact of exercise on health.</p> <p>To understand and demonstrate the impact of diet on health.</p> <p>To know how to use secondary sources.</p> <p>To understand how to demonstrate the impact of drugs on health.</p> <p>To know the symbols of a circuit.</p> <p>To know why a circuit works and why it doesn't.</p>

<p>season affects what clothes we wear.</p>	<p>for the basic needs of different animals and plants.</p> <p>To identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants and how they depend on each other by considering the adaptations of animals and how living things in a habitat depend on each other.</p> <p>To describe how animals, obtain their food from plants and other animals, using the idea of a simple food chain and identify and name different sources of food by making a variety of food chains.</p> <p>To identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses</p> <p>To know and identify the uses of different materials.</p> <p>To identify and classify the uses of everyday materials</p>	<p>objects</p> <p>To know how to compare how objects move on different surfaces.</p> <p>To know how magnetic forces work.</p> <p>To know how to identify magnetic materials.</p>	<p>affects how a circuit works.</p> <p>To understand that a switch opens and closes and test whether a bulb will light up in a simple circuit.</p> <p>To understand electrical hazards in the home.</p> <p>To know common conductors and insulators.</p>	<p>different forces act on an object.</p> <p>To understand that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling objects.</p> <p>To understand the effects of air resistance on a moving object.</p> <p>To understand the effects of water resistance on different objects.</p> <p>To understand the effects of friction using different materials.</p> <p>To understand that some mechanisms like a pulley or a lever can allow a smaller force to have a greater effect.</p>	<p>To understand and research using secondary sources.</p> <p>To understand how to investigate a comparative test.</p> <p>To know how to compare and give reasons for variations in how components function.</p>
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	<p>in the context of the local area.</p> <p>To gather and record data to help in answering questions by recording observations.</p> <p>To identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses by exploring the purposes of different objects.</p> <p>To find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching by changing the shape of objects</p> <p>To find out about people who have developed useful new materials by learning about John McAdam.</p>				
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