



## Science Long Term Annual Plan

### HfL scheme of work

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>EYFS</b> | <b><u>Understanding the World:</u></b><br><b><u>The Natural World ELG</u></b><br>- Explore the natural world around them, making observations and drawing pictures of animals and plants;<br>- Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class;<br>- Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter. |
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| <u>Term</u>   | <u>Autumn 1</u>                                                                                                    | <u>Autumn 2</u>                                                                 | <u>Spring 1</u>                                                                                                                     | <u>Spring 2</u>                                                              | <u>Summer 1</u>                                                                                      | <u>Summer 2</u>                                                                                                                      |
|---------------|--------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Year 1</b> | <b>Animals including humans</b><br>Classifying , carnivores, herbivores, omnivores<br><br><b>Seasonal Changes</b>  |                                                                                 | <b>Materials</b><br>Identifying everyday materials and their properties, compare and group materials<br><br><b>Seasonal Changes</b> |                                                                              | <b>Plants</b><br>Identifying and naming common wild and garden plants<br><br><b>Seasonal changes</b> |                                                                                                                                      |
| <b>Year 2</b> | <b>Materials</b><br>Identify and compare suitability of materials, investigate how some materials can change shape | <b>Living things and their habitats</b><br>Alive or Dead, Habitats, Adaptation, | <b>Living things and their habitats</b><br>Food chains, requirements of Living Things                                               | <b>Animals including humans</b><br>Our bodies, Offspring, Life cycle of Frog | <b>Animals including humans</b><br>Healthy Eating and Exercise and Hygiene                           | <b>Plants</b><br>What are plants? Observe how seeds and bulbs grow into plants, requirements needed to grow, walk in the environment |
| <b>Year 3</b> | <b>Animals including humans</b>                                                                                    | <b>Rocks and soils</b><br>Compare and group different types of                  | <b>Forces</b><br>Magnetism, movement on                                                                                             | <b>Light</b><br>Sources of light, investigate how                            | <b>Plants</b><br>Identify and describe functions,                                                    | <b>Plants</b>                                                                                                                        |



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|               | Nutrition and diet, skeleton and muscles                                                                      | rock, formation of fossils, features of soil                                                                                               | different surfaces, magnetic materials investigation                                           | shadows are formed and how they change shape and size                     | life cycle of a flowering plant, explore requirements of plants for life and growth                                   | Pollination, seed formation and seed dispersal                                                                        |
| <b>Year 4</b> | <b>Animals including humans</b><br>Digestion, Teeth and Eating                                                | <b>Materials – solids, liquids and gases</b><br>Changing state – heating and cooling, the water cycle – evaporation and condensation       | <b>Electricity</b><br>Making circuits, closing and opening circuits, conductors and insulators | <b>Sound</b><br>Identify how sound is made, pitch, volume, vibrations     | <b>Living things and their habitats</b><br>Food chains (producers, predators & prey), classification of living things | <b>Living things and their habitats</b><br>Food chains (producers, predators & prey), classification of living things |
| <b>Year 5</b> | <b>Earth and Space</b><br>Describing the movement of the earth, moon and other planets, explain day and night | <b>Forces</b><br>Gravity, air and water resistance<br>Levers, pulleys and gears                                                            | <b>Materials</b><br>Compare and group materials<br>Properties and Uses                         | <b>Materials</b><br>Separating mixtures (filtering, sieving, evaporating) | <b>Materials</b><br>Changes: dissolving, mixing, changing state (reversible and non reversible)                       | <b>Living things and their habitats</b><br>Reproduction in plants and animals,<br>Changes in humans over time.        |
| <b>Year 6</b> | <b>Living things and their habitats</b><br>Classification of micro-organisms, plants and animals              | <b>Evolution and inheritance</b><br>Offspring<br>Adaptation and how this leads to evolution<br>Use of fossils to learn about living things | <b>Animals including humans</b><br>Circulatory system<br>Impact of diet, exercise and drugs    | <b>Light</b><br>How light travels, understand how we see, shadows         | <b>Electricity</b><br>Circuit symbols, understand how components of a circuit function and how they can be affected.  |                                                                                                                       |



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