

## Science Long Term Grid Year 2

Autumn Term	Spring Term	Summer Term
<p><u>Uses of everyday materials</u></p> <ul style="list-style-type: none"> <li>- To identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard.</li> <li>- To find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</li> <li>- To look at how some materials change when they are heated or cooled.</li> <li>- To investigate different materials and their properties. – look at fair testing.</li> <li>- To find out about people who have developed useful new materials e.g. John Dunlop, Charles Macintosh and John McAdam</li> </ul> <p><u>Forces and movement</u></p> <ul style="list-style-type: none"> <li>- That sometimes pushes and pulls change the shape of objects</li> <li>- That pushes or pulls can make things speed up or slow down or change direction</li> <li>- To explain how to make familiar objects move faster or slower</li> <li>- To suggest questions about ways in which different objects move</li> <li>- To make measurements of distance</li> </ul>	<p><u>Animals, including humans</u></p> <ul style="list-style-type: none"> <li>- To notice that animals, including humans, have offspring which grow in to adults, e.g. <i>egg, caterpillar, pupa, butterfly. Baby, toddler, child, teenager, adult.</i></li> <li>- To find out about and describe the basic needs of animals, including humans for survival e.g. babies and children need to be looked after while they are growing.</li> <li>- To describe the importance for humans to exercise – the effects of exercise on the body, the physical changes.</li> <li>- To look at the importance of eating the right amounts of different types of food.</li> <li>- To look at why hygiene is important.</li> </ul> <p><u>Electricity</u></p> <ul style="list-style-type: none"> <li>- That everyday appliances use electricity;</li> <li>- That everyday appliances are connected to the mains and that they must be used safely</li> <li>- That some devices use batteries which supply electricity; these can be handled safely</li> <li>- To make connections in circuits to the positive and negative poles of the battery</li> <li>- To make a complete circuit using a battery, wires and bulbs</li> <li>- To explore how to make a bulb light, explaining what happened, and using drawings to present results</li> </ul>	<p><u>Living things and their habitats</u></p> <ul style="list-style-type: none"> <li>- To explore and compare the differences between things that are living, dead, and things that have never been alive.</li> <li>- To identify that most living things live in habitats to which they are suited.</li> <li>- Describe how different habitats provide the basic needs of the different kinds of animals and plants, and how they depend on each other for survival.</li> <li>- To identify and name a variety of plants and animals in their habitats, including micro-habitats.</li> <li>- To describe how animals obtain their food from plants and other animals – introduce a simple food chain, and identify and name different sources of food.</li> </ul> <p><u>Plants</u></p> <ul style="list-style-type: none"> <li>- To observe and describe how seeds and bulbs grow into mature plants.</li> <li>- To use the local environment throughout the year to observe how plants grow.</li> <li>- To find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.</li> <li>- Introduce the requirements of plants for germination, growth and survival.</li> </ul>