

**SCIENCE Long Term Planning – Summary of YEAR 3 Units**

AUTUMN 1	AUTUMN 2
<p><b>Rocks</b></p> <ul style="list-style-type: none"> <li>- Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties</li> <li>- Suggest reasons why certain rocks or stones are used for a specific purpose</li> <li>- Describe in simple terms how fossils are formed when things that have lived are trapped within rock</li> <li>- Explain the terms 'weathering' and 'erosion' and describe the effect they have on different types of rocks and soils</li> <li>- Recognise that soils are made from rocks and organic matter</li> <li>- Study the work of Mary Anning in the discovery and understanding of fossils</li> </ul>	<p><b>Animals including Humans</b></p> <ul style="list-style-type: none"> <li>- Identify some of the most important bones in animals such as skull, ribs and spine, describing their primary functions</li> <li>- Classify and group animals into vertebrates or invertebrates</li> <li>- Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat</li> <li>- Identify the different food groups and design a healthy meal based upon these food groups</li> <li>- Describe how each of the main food groups specifically benefit the human body for growth and health</li> <li>- Identify that humans and some other animals have skeletons and muscles for support, protection and movement</li> </ul>
SPRING 1	SPRING 2
<p><b>Light</b></p> <ul style="list-style-type: none"> <li>- Recognise that they need light in order to see things and that dark is the absence of light</li> <li>- Classify a range of objects as either light sources or light reflectors</li> <li>- Notice that light is reflected from surfaces, using equipment such as mirrors to demonstrate</li> <li>- Recognise that light from the sun can be dangerous and that there are ways to protect their eyes</li> <li>- Recognise that shadows are formed when the light from a light source is blocked by an opaque object</li> <li>- Find patterns in the way that the size of shadows change</li> </ul>	<p><b>Plants</b></p> <ul style="list-style-type: none"> <li>- Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers</li> <li>- Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant</li> <li>- Investigate the way in which water is transported within plants</li> <li>- Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal</li> <li>- Sort and classify a range of seeds into broad dispersal methods, such as wind (dandelion), water (coconut), or animal (yew)</li> </ul> <p>(Continued in Summer 1)</p>
SUMMER 1	SUMMER 2
<p><b>Plants</b></p> <ul style="list-style-type: none"> <li>- Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers</li> <li>- Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant</li> <li>- Investigate the way in which water is transported within plants</li> <li>- Explore the part that flowers play in the life cycle of flowering plants, including pollination,</li> </ul>	<p><b>Forces &amp; Magnets</b></p> <p>Compare how things move on different surfaces, making predictions and measuring the distance travelled</p> <p>Notice that some forces (eg friction) need contact between 2 objects, but magnetic forces can act at a distance</p> <p>Observe how magnets attract or repel each other and attract some materials and not others</p> <p>Compare and group together a variety of everyday materials on the basis of whether they are</p>

<p>seed formation and seed dispersal</p> <ul style="list-style-type: none"><li>- Sort and classify a range of seeds into broad dispersal methods, such as wind (dandelion), water (coconut), or animal (yew)</li></ul>	<p>attracted to a magnet, and identify some magnetic materials</p> <p>Describe magnets as having 2 poles</p> <p>Predict whether 2 magnets will attract or repel each other, depending on which poles are facing</p> <p>Name a range of familiar daily activities which rely upon or are caused by forces and magnets</p>
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