

Science – Year 3 and 4 Long term plans – Cycle 1

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3 & 4 (3)	<p><u>Rocks</u></p> <ul style="list-style-type: none"> <li>* Know how rocks are formed.</li> <li>* Know what types of rocks there are.</li> <li>* Know that rocks can change.</li> <li>* Know how to test a rock to identify it as limestone or chalk.</li> <li>* Know if soil is dirt.</li> <li>* Know how fossils are formed.</li> </ul>	<p><u>Animals including humans</u></p> <ul style="list-style-type: none"> <li>* Know the effect that the food we eat has.</li> <li>* Know where my skeleton is and what it does.</li> <li>* Know where my muscles are and what they do.</li> </ul>	<p><u>Forces and Magnets</u></p> <ul style="list-style-type: none"> <li>* Know what a contact force is.</li> <li>* Know how surfaces affect the resistance of an object's movement.</li> <li>* Know how friction affects moving objects.</li> <li>* Know what a non-contact force is.</li> <li>* Know how magnets attract and repel objects.</li> <li>* Know which materials are magnetic.</li> </ul>	<p><u>Light</u></p> <ul style="list-style-type: none"> <li>* Know we need light to see things.</li> <li>* Know how shadows are formed.</li> <li>* Know what happens to the size of an object when it moves closer to, or away from, the light source.</li> </ul>	<p><u>Plants</u></p> <ul style="list-style-type: none"> <li>* Know the flowering parts of a plant and what they do.</li> <li>* Know what plants need to thrive and grow.</li> <li>* Know how leaves make food for the plant.</li> <li>* Know how food dye can affect flowers.</li> <li>* Know how water moves through a plant.</li> <li>* Know what flowers do.</li> <li>* Know what pollination is.</li> </ul>	

Science - Long term plans - Cycle 2

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3 & 4	<p><u>Living things and their habitats</u></p> <ul style="list-style-type: none"> <li>* Know the characteristics of living things</li> <li>* Know which animals are vertebrates</li> <li>* Know which animals are invertebrates</li> <li>* Know how to classify plants</li> <li>* Know how to use a classification key</li> <li>* Know what happens if the environment in a habitat changes.</li> </ul>	<p><u>States of matter</u></p> <ul style="list-style-type: none"> <li>* Know what matter is</li> <li>* Know what solids, liquids and gasses are</li> <li>* Know how materials melt</li> <li>* Know how materials evaporate</li> <li>* Know how materials condense</li> <li>* Know how materials change state</li> </ul>	<p><u>Animals including humans</u></p> <ul style="list-style-type: none"> <li>* Know what teeth humans have and what they do</li> <li>* Know how teeth help with digestion</li> <li>* Know teeth help identify what animals eat</li> <li>* Know parts of the digestive system</li> <li>* Know how digestion works</li> <li>* Know what a food chain is</li> <li>* Know how to construct a food chain</li> </ul>		<p><u>Electricity</u></p> <ul style="list-style-type: none"> <li>* Know what uses electricity</li> <li>* Know what power makes appliances work</li> <li>* Know how to work safely with electricity</li> <li>* Know what components are in a simple circuit</li> <li>* Know the effects of changing circuit components</li> </ul>	<p><u>Sound</u></p> <ul style="list-style-type: none"> <li>* Know what sound is</li> <li>* Know how sound travels</li> <li>* Know what pitch is</li> <li>* Know what loudness is</li> </ul>