

## Science Curriculum 2022-2023

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<p><b>Plants and seasonal changes introduction</b></p> <p><b>Every day materials</b> – identifying and classifying materials.</p>	<p><b>Animals including humans</b></p> <ul style="list-style-type: none"> <li>-Our senses</li> <li>-Identifying and naming common animals, including fish, amphibians, reptiles, birds and animals.</li> </ul>	<p><b>Animals including humans</b></p> <ul style="list-style-type: none"> <li>-Similarities and differences between common animals.</li> </ul>	<p><b>Seasonal changes</b></p> <p><b>Everyday materials</b></p> <ul style="list-style-type: none"> <li>-Objects, materials and properties.</li> </ul>	<p><b>Seasonal changes</b></p> <p><b>Animals including humans</b></p> <ul style="list-style-type: none"> <li>-Carnivores, herbivores, omnivores.</li> </ul>	<p><b>Plants</b></p> <ul style="list-style-type: none"> <li>-Wild and garden plants. Evergreen and deciduous.</li> </ul>
Year 2	<p><b>Living things and their habitats</b></p> <ul style="list-style-type: none"> <li>-life processes</li> <li>-Food chains</li> <li>-Difference between things that are dead, alive and never been alive.</li> </ul>	<p><b>Use of Everyday Materials</b></p> <ul style="list-style-type: none"> <li>-Objects, materials, properties and purposes.</li> <li>-Suitable and unsuitable materials for different purposes based on properties.</li> </ul>	<p><b>Plants</b></p> <ul style="list-style-type: none"> <li>-Seeds and germination</li> </ul>	<p><b>Animals including humans</b></p> <ul style="list-style-type: none"> <li>-Reproduction live young compared to eggs.</li> <li>-Needs for survival</li> <li>-Human life cycle stages</li> </ul>	<p><b>Animals including humans</b></p> <ul style="list-style-type: none"> <li>-Healthy foods and diets</li> <li>-Exercise and hygiene</li> <li>-Sleep</li> </ul>	<p><b>Use of Everyday Materials</b></p> <ul style="list-style-type: none"> <li>-Reversible and irreversible changes to materials.</li> </ul>
Year 3	<p><b>Animals including humans</b></p> <ul style="list-style-type: none"> <li>-Muscles and bones</li> <li>-Vertebrates and invertebrates</li> <li>-Food groups</li> </ul> <p><b>“Our changing world”:</b> Observing flowering plants in different seasons</p>	<p><b>Forces and Magnets</b></p> <ul style="list-style-type: none"> <li>-Push and pull forces</li> <li>-Friction</li> <li>-Magnets and magnetic fields</li> </ul>	<p><b>Light</b></p> <ul style="list-style-type: none"> <li>-Light and dark</li> <li>-Reflection</li> <li>-Transparent/ opaque/ translucent</li> <li>-Shadows</li> </ul> <p><b>“Our changing world”:</b> Observing flowering plants in different seasons</p>	<p><b>Rocks</b></p> <ul style="list-style-type: none"> <li>-Sedimentary rock and fossil formation.</li> </ul>	<p><b>Plants</b></p> <ul style="list-style-type: none"> <li>-Roots and water transport system</li> <li>-How plants make their own food</li> </ul> <p><b>“Our changing world”:</b> Observing flowering plants in different seasons</p>	<p><b>Plants</b></p> <ul style="list-style-type: none"> <li>-Pollination</li> <li>-Fertilisation</li> <li>-Life cycle of a plant</li> <li>-Seed dispersal</li> <li>-Germination</li> </ul>
Year 4	<p><b>Animals including humans</b></p> <ul style="list-style-type: none"> <li>-Digestion and the digestive system</li> <li>-Teeth</li> </ul>	<p><b>Sound</b></p> <ul style="list-style-type: none"> <li>-How sounds start and travel</li> <li>-Volume and pitch</li> <li>-Sound waves and frequency</li> </ul>	<p><b>“Our changing world”:</b></p> <ul style="list-style-type: none"> <li>-Observational unit looking at classifying trees.</li> </ul> <p><b>Living things and their habitats</b></p> <ul style="list-style-type: none"> <li>-Classification of mammals, reptiles, fish, amphibians and birds.</li> <li>- Food chains</li> </ul>	<p><b>Animals including humans</b></p> <ul style="list-style-type: none"> <li>-Human and natural factors that can change a habitat</li> <li>-Endangered and extinct animals</li> </ul>	<p><b>States of matter</b></p> <ul style="list-style-type: none"> <li>-Particle arrangement in solids, liquids and gases</li> <li>-Properties of solid, liquids and gases</li> <li>-Water cycle</li> </ul>	<p><b>Electricity</b></p> <ul style="list-style-type: none"> <li>-Appliances and uses of electricity</li> <li>-Sources of electricity</li> <li>- Electrical circuits</li> </ul>
Year 5	<p><b>Forces</b></p> <ul style="list-style-type: none"> <li>-Newtons as a measure of force</li> <li>-Gravity</li> <li>-Weight</li> <li>-Friction: water resistance and air resistance</li> </ul>	<p><b>Properties and changes of materials</b></p> <ul style="list-style-type: none"> <li>-Dissolving</li> <li>-Reversible and irreversible reactions</li> <li>-Investigating methods to separate mixtures</li> </ul>	<p><b>Our changing world observational unit-</b> features of plants that have reproduced</p> <p><b>Living things and their habitats</b></p> <ul style="list-style-type: none"> <li>-Life cycles of mammals, reptiles, fish, amphibians and birds.</li> <li>-Fertilisation and reproduction animals</li> </ul>	<p><b>Animals including humans</b></p> <ul style="list-style-type: none"> <li>-Human life cycle</li> <li>-Plant reproduction</li> <li>-Fertilisation and gestation in humans</li> </ul>	<p><b>Earth and Space</b></p> <ul style="list-style-type: none"> <li>- Day and night</li> <li>- Solar system and orbits</li> <li>- Moon phases</li> <li>- Seasons</li> </ul>	<p><b>Properties and changes of materials</b></p> <ul style="list-style-type: none"> <li>- Conductivity</li> <li>- Magnetism</li> <li>- Solubility</li> <li>- Thermal conductivity</li> <li>- Viscosity</li> </ul>
Year 6	<p><b>Evolution and inheritance</b></p> <ul style="list-style-type: none"> <li>-Inheritance</li> <li>-Variation (genetic and environmental)</li> <li>- Selective breeding</li> <li>- Fossil record</li> <li>-Speciation</li> </ul>	<p><b>Light</b></p> <ul style="list-style-type: none"> <li>-Shadows</li> <li>-Ray diagrams</li> <li>-Law of reflection</li> <li>-Refraction</li> <li>-Colour spectrum</li> </ul>	<p><b>Animals including humans</b></p> <ul style="list-style-type: none"> <li>-Circulatory system</li> </ul>	<p><b>Electricity</b></p> <ul style="list-style-type: none"> <li>-Current</li> <li>-Voltage</li> <li>-Resistance</li> <li>-Resistors</li> <li>-Series circuits</li> </ul>	<p><b>Living things and their habitats</b></p> <ul style="list-style-type: none"> <li>-Classification using Linnaeus system</li> <li>-Taxonomy</li> <li>-Microorganisms (both useful and harmful)</li> </ul>	<p><b>Animals including humans</b></p> <ul style="list-style-type: none"> <li>-Body health</li> <li>-Benefits of exercise</li> <li>-Balanced diet</li> <li>-Impact of stress</li> <li>-Drugs, alcohol and smoking</li> </ul>