

## Science Curriculum Overview

<b>Year 1</b>	<p style="text-align: center;"><b>Seasons and Weather</b></p> <p>How much rainfall is there in this month? (observing over time)</p>	<p style="text-align: center;"><b>Plants</b></p> <p>Do the tallest trees have the biggest leaves? (pattern seeking)</p> <p>How can we identify the trees that we observed on our tree hunt? (identifying and classifying)</p>	<p style="text-align: center;"><b>Conservation</b></p> <p>How does littering affect animals? (research)</p>	<p style="text-align: center;"><b>Materials</b></p> <p>Which material is the most common in the classroom? (identifying and classifying)</p> <p>Which is the best brand kitchen towel for absorbing water? (fair testing)</p>	<p style="text-align: center;"><b>Animals, including humans</b></p> <p>How many of each type of animal are there? (identifying and classifying)</p>
<b>Year 2</b>	<p style="text-align: center;"><b>Seasons and Weather</b></p> <p>What happens to our bodies when we exercise? (pattern seeking)</p> <p>How do germs spread? (observing over time)</p>	<p style="text-align: center;"><b>Conservation</b></p> <p>How can we conserve energy at home and at school? (research)</p>	<p style="text-align: center;"><b>Living things and their habitats</b></p> <p>Which of these shows things that are alive, were once alive and have never been alive? (identifying and classifying)</p> <p>What conditions do woodlice prefer to live in? (pattern seeking)</p>	<p style="text-align: center;"><b>Materials</b></p> <p>Which colour is the least translucent? (fair testing)</p>	<p style="text-align: center;"><b>Plants</b></p> <p>What are the best conditions to grow a seed? (fair testing)</p> <p>How does my seed/bean change as it grows? (observing over time)</p>

<p><b>Year 3</b></p>	<p><b>Animals, including humans</b></p> <p>Do all bones have the same function? (research; identify and classify)</p> <p>What nutrients do humans need and how do they get them? (research)</p>	<p><b>Light</b></p> <p>Which of these are light sources? (identifying and classifying)</p> <p>Are shadows larger when the object obstructing the light is closer to the light source? (fair testing)</p>	<p><b>Forces and Magnets</b></p> <p>How do objects move on different surfaces? (fair testing)</p> <p>Which materials are magnetic? (identifying and classifying)</p>	<p><b>Plants</b></p> <p>How is water transported through a plant? (observing over time)</p>	<p><b>Rocks</b></p> <p>Can we identify different rocks using the identification key? (identification and classification)</p> <p>How does adding different amounts of sand to soil affect the speed in which water passes through it? (fair testing)</p>
<p><b>Year 4</b></p>	<p><b>Living things and their habitats</b></p> <p>Which of these animals are vertebrates and which are invertebrates? (identifying and classifying)</p> <p>What impact can humans have on environments? (research)</p>	<p><b>Animals, including humans</b></p> <p>Do different liquids affect teeth differently? (fair testing)</p>	<p><b>States of matter</b></p> <p>Which materials change state when they're heated? (identifying and classifying)</p> <p>How does heat impact the rate of evaporation? (fair testing)</p>	<p><b>Electricity</b></p> <p>Which materials are conductors of electricity? (identifying and classifying; fair testing)</p> <p>Does the length of a wire affect the brightness of a bulb? (fair testing)</p>	<p><b>Sound</b></p> <p>How does the size of a column of air of a straw impact the pitch of the sound? (fair testing)</p>

<p><b>Year 5</b></p>	<p><b>Living things and their habitats</b></p> <p>How can we classify living things based on their characteristics? (identifying and classifying)</p>	<p><b>Animals, including humans</b></p> <p>Do larger animals have longer gestation periods? (pattern seeking)</p> <p>How does a baby grow? (research)</p>	<p><b>Properties and changes of materials</b></p> <p>How does the temperature of tea affect how long it takes for a sugar cube to dissolve? (fair testing)</p> <p>How much salt can be dissolved into 100ml of water? (fair testing)</p>	<p><b>Earth and space</b></p> <p>How did moon landings contribute to life on Earth? (research)</p> <p>How do shadows change throughout the day? (observing over time)</p>	<p><b>Forces</b></p> <p>Can the size of a parachute affect the speed in which it falls? (fair testing)</p> <p>What impact does the shape of a small boat have on water resistance? (fair testing)</p>
<p><b>Year 6</b></p>	<p><b>Living things and their habitats</b></p> <p>What are the similarities and differences of microorganisms? (research)</p> <p>What are the similarities and differences between different mammals? (research/identifying and classifying)</p>	<p><b>Animals, including humans</b></p> <p>How does the heart work? (research)</p> <p>How does your heart rate change throughout the day? graph for data (observing over time)</p>	<p><b>Evolution and inheritance</b></p> <p>How did Darwin's finches evolve in order to survive? (fair test for modelling)</p> <p>What different fossils are there? (identifying and classifying)</p>	<p><b>Light</b></p> <p>Does the angle of a light source affect the shape of the shadow? (fair testing)</p> <p>How does the brain recognise how we see? (research)</p>	<p><b>Electricity</b></p> <p>How does the voltage of cells affect the brightness of a bulb? (fair testing)</p> <p>How does the brightness of the bulb vary depending on the amount of resistance in the circuit? (fair testing)</p>