

Year 4 Science Overview 2024-2025

<p>Autumn 1 Sparks Might Fly! WR: Electricity-5weeks Sustainable energy- 2 weeks</p>	<p>Autumn 2 The Great Plague WR: Sound- 8 weeks</p>	<p>Spring 1 The Art of Food WR- Digestive system (7 weeks)</p>	<p>Spring 2 Passport to Europe States of matter (10 weeks) States of matter</p>	<p>Summer 1 Water, Water Everywhere WR: Grouping and classifying (5 weeks)</p>	<p>Summer 2 Hunted WR: Habitats and food chains</p>
<p>Electricity Identify common appliances that run on electricity</p> <ul style="list-style-type: none"> • Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers • Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery • Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit • Recognise some common conductors and insulators, and associate metals with being good conductors <p>Working Scientifically Talk about criteria for grouping, sorting and classifying (non-statutory).</p>	<p>Sound</p> <ul style="list-style-type: none"> • Identify how sounds are made, associating some of them with something vibrating • Recognise that vibrations from sounds travel through a medium to the ear • Find patterns between the pitch of a sound and features of the object that produced it • Find patterns between the volume of a sound and the strength of the vibrations that produced it • Recognise that sounds get fainter as the distance from the sound source increases <p>Working Scientifically – Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables.</p> <p>Making systematic and careful observations and, where appropriate, taking</p>	<p>Digestive System Describe the simple functions of the basic parts of the digestive system in humans</p> <ul style="list-style-type: none"> • Identify the different types of teeth in humans and their simple functions <p>Comparing the teeth of carnivores and herbivores and suggesting reasons for differences (non-statutory).</p> <p>Working Scientifically Identifying differences, similarities or changes related to simple scientific ideas and processes.</p> <p>Asking relevant questions and using different types of scientific enquiries to answer them.</p> <p>Recognise when and how secondary sources might help them to answer questions that cannot be answered through practical</p>	<p>Compare and group materials together, according to whether they are solids, liquids or gases.</p> <ul style="list-style-type: none"> • Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C). • Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. <p>Working scientifically – Identifying differences, similarities or changes related to simple scientific ideas. – Talk about criteria for grouping, sorting and classifying (non-statutory).</p>	<ul style="list-style-type: none"> • Recognise that living things can be grouped in different ways; • Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment; <p>Recognise that environments can change and that this can sometimes pose dangers to living things.</p> <ul style="list-style-type: none"> • Working scientifically – Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. • Working scientifically – Gathering, recording, classifying and presenting data in a variety of ways, to 	<ul style="list-style-type: none"> • Construct and interpret a variety of food chains, identifying producers, predators and prey <p>To understand there are producers, consumers, predators, prey in a food chain and their roles and functions. Different habitats will have different food chains</p> <p>How food chains can be affected by farming, overfishing or human activity.</p> <p>Working Scientifically Using straightforward scientific evidence</p>

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<p>Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables</p> <p>Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.</p> <p>Asking relevant questions and using different types of scientific enquiries to answer them.</p> <p><u>Energy- Sustainability</u> To understand what energy is. To discuss how we could reduce our energy usage.</p> <p><u>Working Scientifically</u> Using straightforward scientific evidence to answer questions or to support their findings.</p> <p>Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</p>	<p>accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.</p> <p>Setting up simple practical enquiries, comparative and fair tests.</p>	<p>investigations (non-statutory). Setting up simple practical enquiries, comparative and fair tests.</p> <p>Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.</p> <p>Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.</p>	<p>Asking relevant questions and using different types of scientific enquiries to answer them.</p> <p>– Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers</p> <p>– Setting up simple practical enquiries, comparative and fair tests</p> <p>– Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</p> <p>Identifying differences, similarities or changes related to simple scientific ideas and processes</p> <p>Asking relevant questions and using different types of scientific enquiries to answer them</p> <p>Using results to draw simple conclusions, make predictions for new values,</p>	<p>help in answering questions..</p> <ul style="list-style-type: none"> • Working scientifically – Asking relevant questions and using different types of scientific enquiries to answer them. 	<p>to answer questions or to support their findings.</p> <p>Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</p> <p>Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.</p>
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