

## Year 4/P5

### Units

### NC Objectives covered

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|--------------------------|---|
| Electricity              | <ul style="list-style-type: none"><li>• <b>(K)</b> Identify common appliances that run on electricity</li><li>• <b>(K)</b> Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers</li><li>• <b>(K)</b> 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</li><li>• <b>(K)</b> Recognise some common conductors and insulators, and associate metals with being good conductors.</li><li>• <b>(K)</b> Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit</li><li>• <b>(WS)</b> Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</li><li>• <b>(WS)</b> Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</li><li>• <b>(WS)</b> Using straightforward scientific evidence to answer questions or to support their findings.</li><li>• <b>(WS)</b> Asking relevant questions and using different types of scientific enquiries to answer them</li><li>• <b>(WS)</b> Identifying differences, similarities or changes related to simple scientific ideas and processes</li></ul> |
| Dangers to Living Things | <ul style="list-style-type: none"><li>• <b>(K)</b> Recognise that environments can change and that this can sometimes pose dangers to living things.</li><li>• <b>(K)</b> Construct and interpret a variety of food chains, identifying producers, predators and prey.</li><li>• <b>(WS)</b> Asking relevant questions and using different types of scientific enquiries to answer them</li><li>• <b>(WS)</b> Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</li><li>• <b>(WS)</b> Setting up simple practical enquiries, comparative and fair tests</li><li>• <b>(WS)</b> Using straightforward scientific evidence to answer questions or to support their findings.</li></ul>   |
| Human Nutrition          | <ul style="list-style-type: none"><li>• <b>(K)</b> Describe the simple functions of the basic parts of the digestive system in humans</li><li>• <b>(K)</b> Identify the different types of teeth in humans and their simple functions</li><li>• <b>(WS)</b> Asking relevant questions and using different types of scientific enquiries to answer them</li><li>• <b>(WS)</b> Setting up simple practical enquiries, comparative and fair tests</li><li>• <b>(WS)</b> Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</li><li>• <b>(WS)</b> Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</li></ul>  |
| Sound                    | <ul style="list-style-type: none"><li>• <b>(K)</b> Identify how sounds are made, associating some of them with something vibrating</li><li>• <b>(K)</b> Recognise that vibrations from sounds travel through a medium to the ear</li><li>• <b>(K)</b> Find patterns between the pitch of a sound and features of the object that produced it</li><li>• <b>(K)</b> Find patterns between the volume of a sound and the strength of the vibrations that produced it</li><li>• <b>(K)</b> Recognise that sounds get fainter as the distance from the sound source increases.</li><li>• <b>(WS)</b> Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</li><li>• <b>(WS)</b> Setting up simple practical enquiries, comparative and fair tests</li><li>• <b>(WS)</b> Identifying differences, similarities or changes related to simple scientific ideas and processes</li></ul>   |
| Grouping Living Things   | <ul style="list-style-type: none"><li>• <b>(K)</b> Recognise that living things can be grouped in a variety of ways</li><li>• <b>(K)</b> Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment</li><li>• <b>(WS)</b> Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</li></ul>  |

- **(WS)** Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
  - **(WS)** Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
  - **(WS)** Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
  - **(WS)** Using straightforward scientific evidence to answer questions or to support their findings.
- Changes of State
- **(K)** Compare and group materials together, according to whether they are solids, liquids or gases
  - **(K)** 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 ( $^{\circ}\text{C}$ )
  - **(K)** Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.
  - **(WS)** Identifying differences, similarities or changes related to simple scientific ideas and processes
  - **(WS)** Setting up simple practical enquiries, comparative and fair tests
  - **(WS)** Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
  - **(WS)** Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions