

Science Year 4

Living things and their habitats

I can explore and use classification keys to help, group, identify and name a variety of living things in their local and wider environment

I can recognise that living things can be grouped in a variety of ways

I can recognise that environments can change and this can sometimes pose dangers to living things

I can identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature

I can compare and group materials together, according to whether they are solids, liquids or gases

I can observe that some materials change state when they are heated, cooled and measure or research the temperature at which it happens

States of Matter

I can recognise some simple conductors and insulators

I can find patterns between the pitch of a sound and features of what produced it

Sound

I can identify how sounds are made, associating some of them with something vibrating

I can recognise that vibrations from sounds travel through something to the ear

I can recognise that sounds get fainter at the distance from the sound source increases

Electricity

I can recognise that a switch opens and closes a circuit

I can identify common electrical appliances

I can construct a simple electrical circuit, identifying its parts

I can compare the requirements of rocks based on their appearance and physical simple properties

I can identify that animals including humans need the right types and amount of nutrition

Animals including humans

I can identify that animals, including humans, cannot make their own food, they get nutrition from what they eat

I can use a range of equipment, including thermometers and data loggers

I can identify that humans and some other animals have skeletons and muscles for support, protection and movement

Working scientifically

I can ask relevant questions and use different types of scientific enquiry to answer them

I can make systematic and careful observations

I can record my findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables

I can use results to draw simple conclusion, make predictions for new values, suggest improvements and raise further questions

I can gather, record, classify and present data in a variety of ways to help in answering questions

I can set up simple practical enquiries, comparative and fair tests

I can report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions

I can take accurate measurements, where appropriate, using standard units