



# Science in Year 4

During Year 4, children begin to use more scientific vocabulary to describe objects and processes, such as describing solids, liquids and gases, or erosion. Vocabulary is a key part of any area of study, and particularly in science. Learning new words – and their spellings – can often be fun when they relate to experiments and science investigations.

## Scientific Investigation

Investigation work should form part of the broader science curriculum. During Year 4, some of the skills your child might focus on include:

- Carry out fair tests, using control tests where appropriate
- Take accurate measurements using a range of scientific equipment, including thermometers
- Organise and presenting data to help answer scientific questions
- Record findings using scientific vocabulary, diagrams, charts and tables
- Report on findings using oral and written explanations of results and conclusions

## Living Things and their Habitats

- Use classification keys to group, identify and name a variety of living things
- Recognise that environments can change

A common example of classification is the grouping of vertebrates into fish, amphibians, reptiles, mammals and birds.

## Animals including Humans

- Describe the basic functions of the parts of the digestive system, such as mouth, oesophagus, stomach and intestines
- Identify the different types of teeth in humans, and their functions
- Construct a variety of food chains to show producers, predators and prey

## States of Matter

- Group materials as solids, liquids and gases
- Observe that some materials change state when heated or cooled
- Know the part of evaporation and condensation in the water cycle

The water cycle is the process of water being evaporated from the Earth's surface, and then condensing to form clouds and rain before falling back to Earth.

## Sound

- Understand that sounds are caused by vibrations reaching the ear
- Find what affects the pitch and volume of a sound



### Parent Tip

Children may make simple musical instruments in school to explore sound. You could also make some at home using elastic bands stretched over an open box, seeds or grains in a sealed box, or even a simple drum from a saucepan!





# Electricity



Construct a simple electrical circuit using cells, wires, bulbs and switches

- Understand that a complete circuit is needed to power a lamp or buzzer
- Recognise some common conductors and insulators

