

# Science Knowledge Year 6

## Living Things and their Habitats

Know how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals

Classify plants and animals based on specific characteristics

Know correct symbols when drawing a simple circuit in a diagram

## Electricity

Know the outcome of a circuit is relative to a number and voltage of the cells used

Know the factors that create variations in how components function, including the brightness of bulbs, loudness of buzzers and the on/off positions of switches

Know that we see things because of the way light travels

## Light

Know that objects are seen because they give out or reflect light into the eye in straight lines.

Know that the reason why shadows have the same shape as the objects that cast them is linked to the fact that light travels in straight lines.

Know that light appears to travel in straight lines

Know that living things have changed over time and that fossils provide information about things that lived on the Earth millions of years ago

## Evolution and Inheritance

Know that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents

Know how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution

## Working Scientifically

I can use test results to make predictions to set up further comparative and fair tests.

I can take accurate measurements, using a range of scientific equipment with increasing accuracy and precision, taking repeat readings where appropriate

I can plan different types of scientific enquiry to answer questions including recognising and controlling variables where necessary

I can report and present findings in oral and written forms such as displays and other presentations describing the degree of trust of the results

I can record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and bar and line graphs.

I can identify scientific evidence that has been used to support or refute ideas or arguments

Know the impact of diet, exercise, drugs and lifestyle on our bodies

## Animals including humans

Know the ways in which nutrients and water are transported within animals, including humans

Know the main parts of the human circulatory system and describe their functions