

Working Scientifically

Living Things and their Habitats

... plan experiments to answer scientific questions including recognising and controlling variables where necessary.

... describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences including microorganisms, plants and animals?

...spot what things need to be controlled for an experiment to be a fair test.

... give reasons for classifying plants and animals based on specific characteristics?

...recording data and results of increasing complexity using scientific diagrams, labels, classification keys, tables, scatter graphs, bar and line graphs.



use different types of equipment and take accurate and precise measurements taking repeat readings where necessary

...using test results to make predictions to set up further comparative and fair tests

The Year 6 Scientist
How well can I ...

...identifying scientific evidence that has been used to support or refute ideas or arguments

...reporting and presenting findings from enquiries, including conclusions, casual relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.

Animals (including humans)

Evolution and Inheritance

Light

Electricity

...identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood?

... recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function?

... describe the ways in which nutrients and water are transported within animals and plants, including humans?

use a recognised symbols when representing a simple circuit in a diagram?

...give reasons why offspring are not identical to each other or to their parents?

... recognise that light appears to travel in straight lines

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

identify and name the basic parts of a simple electric series circuit? (cells, wires, bulbs, switches, buzzers)

compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzer, the on/off position of switches?

...use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye?

...explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes?

... use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them?

... recognise the living things have changed over time and that fossils provide information about living things that inhabited the earth millions of years ago?

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



The Year 6 Scientist How well can I ...

... explain the process of evolution and describe the evidence for this?