Year 6 Program of Study Science

Sc6/1 Working Scientifically

During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

- Sc6/1.1 planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- Sc6/1.2 taking measurements, using a range of scientific equipment, with increasing accuracy and precision
- Sc6/1.3 recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and bar and line graphs
- Sc6/1.4 using test results to make predictions to set up further comparative and fair tests
- Sc6/1.5 using simple models to describe scientific ideas
- Sc6/1.6 reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of results, in oral and written forms such as displays and other presentations
- Sc6/1.7 identifying scientific evidence that has been used to support or refute ideas or arguments.

Sc6/2.1 Living Things and their habitats

- Sc6/2.1a describe 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
- Sc6/2.1b give reasons for classifying plants and animals based on specific characteristics.

Sc6/2.2 Animals including humans

- Sc6/2.2a identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood
- Sc6/2.2b recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function
- Sc6/2.2c describe the ways in which nutrients and water are transported within animals, including humans.

Sc6/2.3 Evolution

Sc6/2.3a recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago

Sc6/3.2b recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents

Sc6/2.3c identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

Sc6/4.1 Light

Sc6/4.1a recognise that light appears to travel in straight lines

Sc6/4.1b 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

Sc6/4.1c 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

Sc6/4.1d use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them

Sc6/4.2 Electricity

Sc6/4.2a associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit

Sc6/4.2b compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches

Sc6/4.2c use recognised symbols when representing a simple circuit in a diagram.