

SCIENCE COVERAGE

Key Stage 1

Lower Key Stage 2

Upper Key Stage 2

Aims and Purpose Aims and purpose

Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics.
Develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them.
Are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future.

How Science Works Working scientifically

Ask simple questions and recognise that they can be answered in different ways.
Observe closely, using simple equipment.
Perform simple tests.
Identify and classify.
Use their observations and ideas to suggest answers to questions.
Gather and record data to help in answering questions.
Ask relevant questions and using different types of scientific enquiries to answer them.
Set up simple practical enquiries, comparative and fair tests.
Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.
Gather, record, classify and present data in a variety of ways to help in answering questions.
Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.
Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.
Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.
Identify differences, similarities or changes related to simple scientific ideas and processes.
Use straightforward scientific evidence to answer questions or to support their findings.
Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.
Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate.
Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs.
Use test results to make predictions to set up further comparative and fair tests.
Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.
Identify scientific evidence that has been used to support or refute ideas or arguments.

Life and the Living Animals including humans

Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals.
Identify and name a variety of common animals that are carnivores, herbivores and omnivores.
Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets).
Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.
Notice that animals, including humans, have offspring which grow into adults.
Find out about and describe the basic needs of animals, including humans, for survival (water, food and air).
Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.

Key Stage 1										Lower Key Stage 2										Upper Key Stage 2																			
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