



Reception

- Describes what they can see, hear and feel whilst outside.
- Recognises some environments that are different to the one in which they live.
- Understands the effect of changing seasons on the natural world around him/her.
- Explores the natural world around them, making observations and drawing pictures of animals and plants (ELG)
- Know some similarities and differences between the natural world around them and contrasting environments. (ELG)
- Understands some important processes and changes in the natural world around them, including seasons and changing states of matter. (ELG)

Year 1

- Ask and answer simple questions
- Use simple equipment to observe closely
- Perform simple tests
- Identify and classify
- Use observations to suggest answers to questions
- Gather and record data to help in answering questions

Year 2

- Ask simple questions using scientific language and recognise they can be answered in different ways
- Use simple equipment to observe closely including changes over time
- Perform simple comparative tests
- Identify, group and classify
- Use observations and ideas to suggest answers to questions noticing similarities, differences and patterns.
- Gather and record data to help in answering questions including from secondary sources of information

Key

Animals



Weather



Sound



Light



Humans



Electricity



Rocks



Evolution



Plants



Forces



Space



Materials



Year 3 and 4

- Ask relevant questions and suggest different types of scientific enquiries to answer them.
- Set up simple, practical enquiries, comparative and fair tests
- Make systematic and careful observations, with opportunities to take standard measurements and use a range of equipment
- Gather, record, classify and present data in a variety of ways to help answer 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 findings

Year 5 and 6

- Plan different types of scientific enquiries to answer questions including recognising and controlling variables when 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