

Progression of scientific enquiry skills across upper and lower phase

LKS2 Working Scientifically
ask scientific questions and use different types of enquiries to answer them
set up simple practical enquiries, comparative and fair tests
make careful observations and take accurate measurements using a range of equipment, including thermometers and data loggers
gather, record, classify and present data in a variety of ways to help answer a question
record my results using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
explain my results by using oral and written explanations, displays or presentations of results and conclusions
use my results to draw simple conclusions, make predictions for new values, suggest how to improve my investigation and ask further questions
identify differences, similarities or changes related to simple scientific ideas and processes
use scientific evidence to answer questions or to support my findings

UKS2 Working Scientifically
plan different types of scientific enquiries to answer questions and recognise and control 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 using oral and written forms such as displays and other presentations. I can include conclusions, causal relationships and explanations and explain the reliability of my results.
identify scientific evidence that has been used to support or refute ideas or arguments