

Lower Key Stage 2—Year 3

KEY VOCABULARY: gradually, identify, observe, recognise, investigate, record, units, table, fair, evidence, research, length, observations, prediction.



Lower Key Stage 2—Year 4.

KEY VOCABULARY: similarities, differences. research and source scientists, discovery, process, cycle, measurements, conclude, evaluate, rank, plan, vary, constant, bar graph, table, tally.

Ask Questions	Measuring and recording	Concluding	Evaluating
<ul style="list-style-type: none"> Ask relevant questions and use different types of scientific enquiries to answer them. Set up simple practical enquiries. Set up comparative and fair tests. 	<ul style="list-style-type: none"> Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables Gather, record, classify and present data in a variety of ways to help in answering questions 	<ul style="list-style-type: none"> Identify differences, similarities or changes related to simple scientific ideas and processes Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions Use straightforward scientific evidence to answer questions or to support their findings 	<ul style="list-style-type: none"> Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions

Progression in working scientifically at Banks Lane Junior School

Aims of teaching children to work scientifically at BLJS:

- To equip children with the skills and knowledge to go on the scientific pursuit of answering the why, how and what if questions they pose.
- To nurture their natural curiosity and ensure it is not lost as they progress through school and grow older.
- To equip them with the scientific knowledge required to understand the uses and implications of science, today and for the future.



Ask Questions	Measuring and recording	Concluding	Evaluating
<ul style="list-style-type: none"> Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> Identify scientific evidence that has been used to support or refute ideas or arguments Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results. Use oral and written forms such as displays and other presentations 	<ul style="list-style-type: none"> Use test results to make predictions to set up further comparative and fair tests

Upper KS2. Year 6

KEY VOCABULARY: hypothesis, variable, constants, evaluate, plan, conclude, interpret, classify, categorise, database enquiry, control, repeat, support, refute, degree of trust, scatter graph.



Upper KS2 Year 5

KEY VOCABULARY: classify, interpret, pattern, relationship prediction, analyse, conclude, evaluate, rank, variable, constants, control, repeat, key relationship, line graph.