

BRUNSHAW PRIMARY SCHOOL



Inspiring children to be resilient and aspirational learners, within a positive and considerate community

Progression in Scientific Skills

EYFS	KS1	LKS2	UKS2	KS3
Show curiosity about objects, events and people	Explore the world around them; asking own simple questions	Suggest improvements and raise further questions	Using test results to make predictions	Ask questions and develop a line of enquiry based on real-world observations
Engage in open-ended playing and exploring	Experience different types of scientific enquiry	Reporting findings from enquiries, including oral and written explanations, results and conclusions	Reporting and presenting findings from enquiries including: conclusions, casual relationships and explanations	Present observations and data using appropriate methods
Take a risk; engage in new experiences; learn by trial and error	Begin to recognise different ways in which they might answer scientific questions	Asking relevant questions, using different types of scientific enquiries to answer them	Identifying scientific evidence that has been used to support or refute ideas or arguments	Make predictions using scientific knowledge and understanding
Find new ways to do things or solve simple problems	Carry out simple tests	Setting up simple practical enquiries	Planning different types of scientific enquiry, including recognising and controlling variables where necessary	Select, plan and carry out the most appropriate types of scientific enquiry

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Comments and asks questions about the natural world (a familiar place)	Ask people questions and use simple secondary sources to find out answers	Asking relevant questions and using different types of scientific enquiries to answer them	Planning different types of enquiry to answer scientific questions	Identify further questions arising from their results
Use senses to explore the world; closely observes people and animals	Observe closely using simple equipment	Make systematic and careful observations	Observe and recognise where to control variables, if necessary	Make and record observations and measurements, using a range of different methods
Create simple representations of events	Record simple data	Take accurate measurements using standard units.	Taking measurements, with increasing accuracy and precision; taking repeat readings if necessary	Understand basic data analysis
Develop their own narratives and explanations	With help, record and communicate findings (using simple scientific language)	Gather, record, classify and present data in a variety of ways (e.g. bar charts, keys, labelled diagrams)	Record data with increasing complexity, using: scientific diagrams, classification keys, bar and line graphs	Present observations and data using appropriate methods, including tables and graphs
Answer how and why questions about experiences (ELG)	Use their observations to suggest answers to questions	Using results to draw up simple conclusions, make predictions and raise further questions	Using test results to make predictions to set up further comparative and fair tests	Plan and carry out the most appropriate enquiry type, identifying independent, dependent and control variables
Choose resources they need for chosen activities (ELG); handle equipment and tools effectively.	Use simple measurements and equipment (e.g. egg timers) to gather data	Use a range of equipment (including thermometers and data loggers)	Using a range of scientific equipment, with increasing accuracy and precision	Use appropriate techniques, apparatus and materials during fieldwork and laboratory work, paying attention to health and safety

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