Scientific Enquiry End Points

Science Intent

I am a Scientist!

I confidently explore and discover what is around me, so that I have a deeper understanding of the world I live in.

INTENT	To develop inquisitive children who are excited about investigating with curiosity, "How can scientific enquiry explain the world?" Exploring answers by gathering and analysing evidence.		
Pupils are enabled to …	Enquire, record and report, developing and evaluating explanations through experimental evidence.		
EYFS	**Key Stage 1**	**Lower Key Stage 2**	**Upper Key Stage 2**
• Explore the natural world around them, making observations and drawing pictures of animals and plants; • Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class; • Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.	• Ask simple questions. • Observe closely, using simple equipment. Perform simple tests • Use observations and ideas to suggest answers to questions. • Gather and record data.	• Ask relevant questions. • Set up simple, practical enquiries and comparative and fair tests. • Make accurate measurements using standard units, using a range of equipment. • Gather, record, classify and present data in a variety of ways. • Record findings using simple scientific language, drawings, labelled diagrams, 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	• Plan enquiries, including recognising and controlling variables where necessary. • Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work. • Take measurements, using a range of scientific equipment, with increasing accuracy and precision. • Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs, and models. • Report findings from enquiries, including oral and written explanations of results, explanations involving causal relationships, and conclusions.

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