

Belton Primary School

Science Progression of Skills

Adapted from Developing Experts

Updated June 2023



Key Stage 1

Year ½ - Cycle A	Animals incl. Humans Health & Survival	Exploring everyday materials	Exploring Everyday Materials 2	Plants - Year 1	Life Cycles Animals incl. humans	Living things and their habitats
Asking simple questions and recognise that they can be answered in different ways						
Observe closely, using simple equipment						
Perform simple tests						
Identify and classify						
Using their observations and ideas to suggest answers to questions						
Gather and record data to help in answering questions						

Year ½ - Cycle B	All About Me	Seasonal Changes	About Animals	Plants - Year 2	Uses of everyday materials	Habitats from around the world Living things and their habitats
Asking simple questions and recognise that they can be answered in different ways						
Observe closely, using simple equipment						
Perform simple tests						
Identify and classify						
Using their observations and ideas to suggest answers to questions						
Gather and record data to help in answering questions						

Lower Key Stage Two

Year 3 - Cycle A	Light	Animals incl. Humans	Plants	Forces and Magnets	Classifying Living Things and their habitats	Electricity
Asking relevant questions and using different types of enquiries to answer them.						
Set up simple practical enquiries, comparative and fair tests						
Make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers						
Gather, record, classify and present data in a variety of ways to help in answering 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 their findings						

Year 3/4 - Cycle A	States of Matter	Animals incl Humans	Conservation	Sound	Scientific Enquiry	Rocks
Asking relevant questions and using different types of enquiries to answer them						
Set up simple practical enquiries, comparative and fair tests						
Make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers						
Gather, record, classify and present data in a variety of ways to help in answering 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 their findings						

Upper Key Stage 2

Year 5/6 - Cycle A	Studying Living Things	Light	Evolution & Inheritance	Changes of Materials	Forces	Heart Health
Plan different types of scientific enquiries to answer questions, including recognising and controlling 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, 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						

Year 5/6 - Cycle B	Properties of materials	Living Things & Their Habitats	Electricity	Looking after the environment	Space	Lifecycles - yr 5
Plan different types of scientific enquiries to answer questions, including recognising and controlling 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, 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						

