



Science Map:

Science is taught to children throughout the school.

In Foundation Stage, children are taught Science as part of Knowledge and Understanding of the World. Children

- Question how things work.
- Predict what might happen next.
- Show an interest in the world around them.

During Years 1 and 2, pupils are taught to use following scientific methods, processes and skills.

- asking simple questions and recognising that they can be answered in different ways
- observing closely, using simple equipment
- performing simple tests
- identifying and classifying
- using their observations and ideas to suggest answers to questions
- gathering and recording data to help in answering questions.



During Years 3 and 4, pupils are taught to use the following scientific methods, processes and skills

- asking relevant questions and using different types of scientific enquiries to answer them
- setting up simple practical enquiries, comparative and fair tests
- making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- identifying differences, similarities or changes related to simple scientific ideas and processes using straightforward scientific evidence to answer questions or to support their findings.

During Years 5 and 6, pupils are taught to use the following scientific methods, processes and skills.

- planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs
- using test results to make predictions to set up further comparative and fair tests
- reporting and presenting 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
- identifying scientific evidence that has been used to support or refute ideas or arguments.



These methods, processes and skills are used in the following topics.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Years 1 & 2 (Year A)	Working Scientifically Animals Including Humans.	Working Scientifically Animals Including Humans.	Working Scientifically Plants	Working Scientifically Use Of Everyday Materials	Working Scientifically Living Things And Their Habitats.	Working Scientifically Living Things And Their Habitation.
Years 1 & 2 (Year B)	Working Scientifically Everyday Materials	Working Scientifically Everyday Materials	Working Scientifically Animals Including Humans	Working Scientifically Animals Including Humans	Working Scientifically Plants /Season Changes	Working Scientifically Plants/Season Changes
Years 3 & 4 (Year A)	Working Scientifically Plants	Working Scientifically Living Things And Their Habitats	Working Scientifically Forces And Magnets	Working Scientifically Forces And Magnets	Working Scientifically Sound	Working Scientifically Electricity
Years 3 & 4 (Year B)	Working Scientifically States Of Matter	Working Scientifically Animals Including Humans	Working Scientifically Rocks	Working Scientifically Animals Including Humans	Working Scientifically Light	Working Scientifically Light
Year 5 & 6 (Year A)	Working Scientifically Living Things And Their Habitats	Working Scientifically Light	Working Scientifically Animals Including Humans	Working Scientifically Electricity	Working Scientifically Properties Of Everyday Materials	Working Scientifically Properties Of Everyday Materials
Year 5 & 6 (Year B)	Working Scientifically Evolution And Inheritance	Working Scientifically Evolution And Inheritance	Working Scientifically Earth And Space	Working Scientifically Animals Including Humans	Working Scientifically Living Things And Their Habitats	Working Scientifically Forces