



Science Map:

Science is taught to children in Years 1,2,3,4,5 & 6.

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 5, 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
Year 1/2	Working Scientifically Animals	Working Scientifically Everyday Materials	Working Scientifically Plants Everyday Materials	Working Scientifically Living Things and their Habitats	Working Scientifically Animals Plants	Working Scientifically Seasonal Changes
Year 3/4	Plants States of matter	Living things and their habitats Animals including humans	Forces and magnets Light	Animals including humans Light	Sound Electricity	Animals including humans Rocks



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 4/5	Earth and Space Living Things Animals	Earth and Space Living Things Animals	States of Matter Electricity	Properties of materials Forces	Living Things Properties of materials	Living Things Sound
Year 5/6	All living things Earth & space	All living things Animals including humans	Light Evolution & inheritance	Properties of everyday materials Evolution & inheritance	Properties of everyday materials Forces	Electricity Forces