|  |
| --- |
| **Science Progression of Skills Year 1** |
| Pupils will be taught to use the following practical  scientific methods, processes and skills:  WS1 asking simple questions and recognising that they can be answered in different ways  WS2 observing closely, using simple equipment and measurement  WS3 performing simple tests  WS4 identifying and classifying  WS5 using their observations and ideas to suggest  answers to questions  WS6 gathering, recording and communicating data and findings to help in answering questions.  WS7 use scientific language and read and spell age-appropriate scientific vocabulary  WS8 begin to notice patterns and relationships. |
| **Science Progression of skills Year 2** |
| Pupils will be taught to use the following practical  scientific methods, processes and skills:  WS1 asking simple questions and recognising that  they can be answered in different ways  WS2 observing closely, using simple equipment and measurement  WS3 performing simple tests  WS4 identifying and classifying  WS5 using their observations and ideas to suggest  answers to questions  WS6 gathering, recording and communicating data and findings to help in answering questions.  WS7 use scientific language and read and spell age-appropriate scientific vocabulary  WS8 begin to notice patterns and relationships. |
| **Science Progression of skills Year 3** |
| Pupils will be taught to use the following practical scientific methods, processes and skills:  WS1 making decisions, asking relevant questions and using different types of scientific enquiries to answer them  WS2 setting up simple practical enquiries, comparative and fair tests  WS3 making systematic and careful observations using notes and simple tables  WS4 taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers  WS5 gathering, recording, classifying and presenting data in a variety of ways to help in answering questions  WS6 recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables  WS7 reporting on findings from enquiries, using relevant scientific language, including oral and written explanations, displays or presentations of results and conclusions  WS8 using results to draw simple conclusions, make  predictions for new values, suggest improvements and raise further questions  WS9 identifying differences, patterns, similarities or changes related to simple scientific ideas and processes  WS10 using straightforward scientific evidence to answer questions or to support their findings.  WS11 begin to look for naturally occurring patterns and relationships  WS12 recognise when and how secondary sources might help them to answer questions that cannot be answered through practical investigations. |
| **Science Progression of skills Year 4** |
| Pupils will be taught to use the following practical scientific methods, processes and skills:  WS1 making decisions, asking relevant questions and using different types of scientific enquiries to answer them  WS2 setting up simple practical enquiries, comparative and fair tests  WS3 making systematic and careful observations using notes and simple tables  WS4 taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers  WS5 gathering, recording, classifying and presenting data in a variety of ways to help in answering questions  WS6 recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables  WS7 reporting on findings from enquiries, using relevant scientific language, including oral and written explanations, displays or presentations of results and conclusions  WS8 using results to draw simple conclusions, make  predictions for new values, suggest improvements and raise further questions  WS9 identifying differences, patterns, similarities or changes related to simple scientific ideas and processes  WS10 using straightforward scientific evidence to answer questions or to support their findings.  WS11 begin to look for naturally occurring patterns and relationships  WS12 recognise when and how secondary sources might help them to answer questions that cannot be answered through practical investigations. |
| **Science Progression of skills Year 5** |
| Pupils will be taught to use the following practical scientific methods, processes and skills:  WS1 planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary  WS2 taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate  WS3 recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs  WS4 using test results to make predictions to set up further comparative and fair tests  WS5 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  WS6 identifying scientific evidence that has been used to support or refute ideas or arguments.  WS7 explore and talk about their ideas; asking their own questions about scientific phenomena; and analysing functions, relationships and interactions more systematically.  WS8 recognise that scientific ideas change and develop over time.  WS9 draw conclusions based on their data and observations, use evidence to justify their ideas, and use their scientific knowledge and understanding to explain their findings.  WS10 Pupils should read, spell and pronounce scientific vocabulary correctly. |
| **Science Progression of skills Year 6** |
| Pupils will be taught to use the following practical scientific methods, processes and skills:  WS1 planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary  WS2 taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate  WS3 recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs  WS4 using test results to make predictions to set up further comparative and fair tests  WS5 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  WS6 identifying scientific evidence that has been used to support or refute ideas or arguments.  WS7 explore and talk about their ideas; asking their own questions about scientific phenomena; and analysing functions, relationships and interactions more systematically.  WS8 recognise that scientific ideas change and develop over time.  WS9 draw conclusions based on their data and observations, use evidence to justify their ideas, and use their scientific knowledge and understanding to explain their findings.  WS10 Pupils should read, spell and pronounce scientific vocabulary correctly. |