Strand	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Scientific attitudes	WSN.1 know how to talk about what they see	WSR.1 know how to ask questions to find out more.     WSR.2 know how to articulate ideas in full sentences.	WS1.1 know how to ask simple questions     WS1.2 know how to talk about what they have found out using simple scientific language	WS2.1 know how to ask simple questions about what they notice and recognise that they can be answered in different ways WS2.2 know how to communicate their ideas in a variety of ways using to others using simple scientific vocabulary	WS3.1 know how to draw simple conclusions and use some scientific language to talk about what they have found out     WS3.2 know how to decide which types of scientific enquiry are likely to be the best ways of answering questions through conversations with others	WS4.1 know how to draw simple conclusions and use some scientific language to write about what they have found out WS4.2 know how to decide independently which types of scientific enquiry are likely to be the best ways of answering questions	WS5.1 know how to answer scientific questions using different types of scientific enquiry	WS6.1 know how to answer scientific questions using different types of scientific enquiry in the most appropriate ways	WS7.1 know how scientific theories change over time
	WSN.2 know how to use simple scientific vocabulary in their talk	WSR.3 know how to use scientific vocabulary in their talk	WS1.3 know how to read and spell scientific vocabulary at a level consistent with their increasing word reading and spelling knowledge at Year 1	WS2.3 know how to read and spell scientific vocabulary at a level consistent with their increasing word reading and spelling knowledge at Year 2	WS3.3 know how to read and spell scientific vocabulary correctly and with confidence, using their growing word reading and spelling knowledge at Year 3	WS4.3 know how to read and spell scientific vocabulary correctly and with confidence, using their growing word reading and spelling knowledge at Year 4	WS5.2 know how to read, spell and pronounce scientific vocabulary correctly at Year 5	WS6.2 know how to read, spell and pronounce scientific vocabulary correctly at Year 6	WS7.2 know and use the terms: accuracy, precision, repeatability and reproducibility
Planning	WSN.3 know how to ask simple who, what and why questions	WSR.4 know how to use and understand questions such as 'who; why; when; where and how'	WS1.4 know how to ask simple scientific questions	WS2.4 know how to ask simple questions about what they notice and recognise that they can be answered in different ways	WS3.4 know how to ask relevant questions and decide with others which different types of scientific enquiries could be used to answer them	WS4.4 know how to ask relevant questions and decide independently which different types of scientific enquiries could be used to answer them			WS7.3 develop lines of enquiry     WS7.4 make predictions using scientific understanding

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Strand	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	
				2	WS3.5 know how to set up simple practical enquiries, comparative and fair tests with others	WS4.5 know how to set up simple practical enquiries, comparative and fair tests independently	WS5.3 know how to plan different types of scientific enquiries to answer questions, including recognising variables	WS6.3 know how to plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary	WS7.5 identify independent, dependent and controlled variables	
Observing and measuring during practical activities		WSR.5 know some simple scientific equipment	WS1.5 know how to use simple equipment safely with appropriate support	WS2.5 know how to use simple equipment safely with reduced support		$\prod$				
activities		WSR.6 know some simple ways of recording information, (e.g. bug hunt)	WS1.6 know how to gather and record data (with appropriate support) to help in answering questions     WS1.7 know how to identify and classify findings with appropriate support	WS2.6 know how to gather and record data (with reduced support) to help in answering questions     WS2.7 know how to identify and classify findings with reduced support	WS3.6 know how to make systematic and careful observations and, where appropriate, take measurements (with support), using standard units, a range of equipment safely, including thermometers      WS3.7 know how to gather, record and classify data in a variety of ways to help in answering questions	WS4.6 know how to make systematic and careful observations and, where appropriate, take measurements, using standard units, a range of equipment safely, including thermometers and data loggers     WS4.7 know how to gather, record and classify and present data in a variety of ways to help in answering questions	WS5.4 know how to take measurements, using a range of scientific equipment safely, with increasing accuracy and precision, taking repeat readings where appropriate     WS5.5 know how to record data and results of increasing complexity using scientific diagrams and labels, scatter graphs, bar graphs	WS6.4 know how to take measurements, using a range of scientific equipment safely, with accuracy and precision, taking repeat readings where appropriate     WS6.5 record data and results of increasing complexity using classification keys, tables, line graphs	WS7.6 choose and use appropriate techniques and wider range of scientific equipment     WS7.7 use a wide range of methods to make and record measurements     WS7.8 apply sampling techniques	
			WS1.8 know how to perform simple tests with appropriate support	WS2.8 know how to perform simple tests with reduced support	11				WS7.9 have a knowledge of risk assessments during practical work	

Strand	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Analysis	WSN.4 know how to talk about what is happening	WSR.7 know how to makes simple observations explain why some things occur, and talks about changes     WSR.8 know how to describe events in order	WS1.9 know how to use their observations and ideas to suggest answers to questions     WS1.10 know how to explain what they have found	WS2.9 know how to use their observations and ideas to suggest answers to questions and what they could do next     WS2.10 know how to explain what they have found and how they found it	WS3.8 know how to report on findings from enquiries, including oral and written explanations     WS3.9 know how to use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions with the support of others	WS4.8 know how to report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions     WS4.9 know how to use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions independently	WS5.6 know how to report and present findings from enquiries, including conclusions and causal relationships, in oral and written forms such as displays and other presentations	WS6.6 know how to report and present findings from enquiries, including conclusions and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations	WS7.10 know how to explain data using scientific understanding     WS7.11 know how to use simple statistical techniques, including means of data
					WS3.10 know how to use straightforward scientific evidence to answer questions or to support their findings				
					WS3.11 know how to record findings using simple scientific language, drawings, labelled diagrams and tables	WS4.10 know how to record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables	WS5.7 know how to present data using a variety of scatter graphs and line graphs	WS6.7 know how to present data using a variety of graphs	WS7.12 know how to present data in appropriate methods (tables, bar charts, line graphs)     WS7.13 know how to identify patterns in data to draw conclusions

Strand	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
				2	WS3.12 know how to identify differences, similarities or changes related to simple scientific ideas and processes		WS5.8 know how to support or refute ideas or arguments using scientific evidence		
Evaluating					WS3.13 know how to use results to suggest improvements and raise further questions with the support of others	WS4.11 know how to use results to suggest improvements and raise further questions independently	WS5.9 know how to use test results to make predictions to set up further comparative and fair tests     WS5.10 know how to discuss the degree of trust in results		WS7.14 evaluate data, including potential random and systematic errors     WS7.15 identify further questions arising from results
Measure ments	WSN.5 know the words; full, empty, long, short, fast, slow	WSR.9 know the difference between; full, empty, long, short, fast, slow	WS1.11 use standard units appropriate for Year 1	WS2.11 use standard units appropriate for Year 2	WS3.14 use standard units appropriate for Year 3	WS4.12 use standard units appropriate for Year 4	WS5.11 use standard units appropriate for Year 5	WS6.8 use standard units appropriate for Year 6	WS7.16 using a range of standard units when measuring