Science Progression Document

Working Scientifically progression at Oakworth Primary School				
Nursery				
	Asking questions, planning and predicting	**Testing, obtaining and observing**	**Identifying patterns and Evaluating**	**Recording**
Nursery	*Question why things happen *Comment and ask questions about their familiar world such as the place where they live or the natural world *Begin to anticipate key events	*Closely observe what animals, people and vehicles do *Use senses to explore the world around them *Make simple observations	*Uses talk to connect ideas, explain what is happening and anticipate what might happen next, recall and relive past experiences	*Ascribe meaning to marks
Reception				
	Asking questions, planning and predicting	**Testing, obtaining and observing**	**Identifying patterns and Evaluating**	**Recording**
Reception	*Question why things happen *Anticipate key events accurately and respond with relevant comments	*Simple comparative vocabulary – bigger, smaller *Make observations independently and talk about them *General sensory observations of animals and plants *Simple descriptions of the world around them *Looking at objects and pictures and discussing what they can see	*Use talk to clarify thinking and ideas *Noticing 'which worked best' – simple comparative statements *Answer initial question simply *Answer how and why questions about their experiences	*Talking about objects and events *Simple recording – pictures/images *Attempt to write in meaningful contexts
Year 1 - Working Scientific to be woven through content Topics				
	Asking questions, planning and predicting	**Testing, obtaining and observing**	**Identifying patterns and Evaluating**	**Recording**
Year 1	*To begin to ask simple questions and begin to recognise that they can be answered in different ways	*To begin to observe closely, using simple equipment *To begin to carry out simple tests *To begin to use observations and or ideas to suggest answers to questions	*To begin to identify and classify	*To begin to gather and record data to answer questions

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Year 2- Working Scientific to be woven through content Topics				
Year 2	**Asking questions, planning and predicting**	**Testing, obtaining and observing**	**Identifying patterns and Evaluating**	**Recording**
	*Confidently ask simple questions and recognise that they can be answered in different ways	*Confidently observe closely, using simple equipment *Confidently carry out simple tests *Confidently use observations and or ideas to suggest answers to questions	*Confidently identify and classify	*Confidently gather and record data to answer questions
Year 3 - Working Scientific to be woven through content Topics				
Year 3	**Asking questions, planning and predicting**	**Testing, obtaining and observing**	**Identifying patterns and Evaluating**	**Recording**
	*Begin to ask relevant questions but use different types of enquiry to answer them	*Begin to set up simple practical enquiries, comparative and fair tests *Begin to make systematic and careful observations *When appropriate, begin to take accurate measurements using standard units e.g. thermometers and data loggers	*Begin to use results to make simple conclusions, make predictions for new values, suggest improvements and raise further questions *Begin to identify similarities, differences or changes to simple scientific ideas or processes *Begin to use straightforward scientific evidence to answer questions or to support their findings	*Begin to gather, record, classify and present data in a variety of ways to help in answering questions *Begin to record findings using simple scientific language e.g. drawings, labelled diagrams, keys, bar charts and tables *Begin to report findings from enquiries (oral and written, displays and conclusions)

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Year 4 - Working Scientific to be woven through content Topics				
Year 4	**Asking questions, planning and predicting**	**Testing, obtaining and observing**	**Identifying patterns and Evaluating**	**Recording**
	*Confidently ask relevant questions but use different types of enquiry to answer them	*Confidently set up simple practical enquiries, comparative and fair tests *Confidently make systematic and careful observations *When appropriate, confidently take accurate measurements using standard units e.g. thermometers and data loggers	*Confidently use results to make simple conclusions, make predictions for new values, suggest improvements and raise further questions *Confidently identify similarities, differences or changes to simple scientific ideas or processes *Confidently use straightforward scientific evidence to answer questions or to support their findings	*Confidently gather, record, classify and present data in a variety of ways to help in answering questions *Confidently record findings using simple scientific language e.g. drawings, labelled diagrams, keys, bar charts and tables *Confidently report findings from enquiries (oral and written, displays and conclusions)
Year 5 - Working Scientific to be woven through content Topics				
Year 5	**Asking questions, planning and predicting**	**Testing, obtaining and observing**	**Identifying patterns and Evaluating**	**Recording**
	*Begin to plan different types of enquiry to answer questions *Begin to recognise and control variables where necessary	*Begin to take measurements with a range of equipment *Begin to increase accuracy and precision *Take repeat readings where appropriate	*Begin to use test results to make predictions for further comparative and fair tests *Begin to identify scientific evidence used to support or refute ideas or arguments	*Begin to record data and results with scientific diagrams, labels, keys, tables, bar and line graphs *Begin to report and present findings from enquiries, including conclusions, causal relationships and explanations of results, in oral and written forms such as displays and other presentations

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Year 6 - Working Scientific to be woven through content Topics				
Year 6	**Asking questions, planning and predicting**	**Testing, obtaining and observing**	**Identifying patterns and Evaluating**	**Recording**
	*Confidently plan different types of enquiry to answer questions *Confidently recognise and control variables where necessary	*Confidently take measurements with a range of equipment *Confidently increase accuracy and precision. Take repeat readings where appropriate	*Confidently use test results to make predictions for further comparative and fair tests *Confidently identify scientific evidence used to support or refute ideas or arguments	*Confidently record data and results with scientific diagrams, labels, keys, tables, bar and line graphs *Confidently report and present findings from enquiries, including conclusions, causal relationships and explanations of results, in oral and written forms such as displays and other presentations