St Dennis Primary Academy

Working Scientifically (EYFS)

	Describe what you see.
	Ask questions about the world around you.
	Predict what you think might happen.
	Measure: Is it bigger or is it smaller?
	Draw what happened.
	Sort or group items by answering yes or no questions.

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Working Scientifically (Year 1)

	Make observations using simple equipment.
	Ask simple questions.
	Decide what data you need to record.
	Perform simple tests.
	Gather and record data using tables and photos to help answer your question.
	Identify and classify using what you know.

Working Scientifically (Year 2)

	Make observations and use them to answer your questions.
	Ask simple questions and know that they can be answered in different ways.
	Decide what data you need to record.
	Perform simple tests to gather evidence to answer questions.
	Gather and record data or measurements in tables, tally or bar charts.
	Identify and classify using your own criteria.

Working Scientifically (Year 3)

	Make careful observations and use them to answer your questions.
	Ask relevant questions.
	Use prior knowledge to make predictions.
	Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.
	Plan and perform fair tests.
	Use information from data to say what you have found out.
	Take accurate measurements using scientific equipment.

Working Scientifically (Year 4)

	Make careful observations and use them to answer my questions.
	Ask relevant questions.
	Use prior knowledge to make predictions.
	Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
	Plan and perform fair tests and explain how the test is fair.
	Use information from data to answer your question.
	Take accurate measurements using scientific equipment and standard units of measure.

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Working Scientifically (Year 5)

	Decide what observations to make in practical investigations. Make observations over time.
	Ask a range of questions and identify the type of enquiry that will help answer it.
	Make predictions and justify why using scientific vocabulary.
	Record findings using tables, scientific diagrams, bar charts and scatter graphs.
	Plan a range of scientific experiments using scientific equipment in both fair and comparative tests.
	Be able to spot and explain patterns in results.
	Take accurate and precise measurements using scientific equipment.

Working Scientifically (Year 6)

	Decide what observations to make in practical investigations. Make observations over time
	Ask a range of questions and recognise and control variables.
	Use your findings to make predictions and set up further enquiries.
	Record findings using tables, scientific diagrams, bar charts, scatter graphs, line graphs and classification keys.
	Plan a range of scientific experiments using scientific equipment in both fair and comparative tests.
	Be able to spot and explain patterns in your results. Identify anomaly that do not fit the overall pattern.
	Take accurate and precise measurements using scientific equipment. Make decisions whether to repeat readings or adjust frequency.