Fowey Primary School Science Skills Progression Map





Fowey Primary School Progression Map Science -Skills



EYF S	Year1	Year 2		Year 3	Year 4		Year 5	Year 6
Explore the natural world around them, making observations and drawing pictures	question recognican be different observice using sequipm equipm identify classify classify observice ideas to answere gatheri recordi	simple ms and ising that they answered in at ways ng closely, simple nent ning simple tests ying and	•	observations and appropriate, tall measurements units, using a requipment, incomplete thermometers of gathering, recording finding answering question and table to the conclusions, and table to the conclusions, measurements, and table to the conclusions, measurements and conclusions, measurements are suffered to the conclusions, measurements are conclusions, measurements.	types of ries to answer ale practical parative and careful and, where king accurate using standard range of luding and data loggers rading, I presenting data ways to help in stions age, drawings, ms, keys, bar ales adings from ading oral and ations, displays s of results s of results s	•	range of scient with increasing precision, taking readings when recording data increasing community diagraphs, graphs, graphs, using test result predictions to suffer tests reporting and findings from a including concrelationships a of and a degree results, in oral forms such as other presentationships and identifying said	ent types of ries to answer uding d controlling e necessary ements, using a ific equipment, g accuracy and ag repeat appropriate and results of uplexity using ams and labels, eys, tables, bar and line lts to make set up rative and cresenting enquiries, lusions, causal and explanations e of trust in and written displays and cions cientific evidence used to support or

						changes related ntific ideas and forward nce to answer		
Planning Investigations	Skills	Asking simple questions.	Asking simple questions. Suggest different ways of answering a question.	Asking simple questions. Suggest different ways of answering a question.	Can name 3 each of Independent, Dependent and Control Variables. Can construct questions from chosen variables. Can identify variables in questions. Can make and justify a prediction. Can list the equipment needed to carry out an investigation Can write a method for an investigation.	Can name 3 each of Independent, Dependent and Control Variables. Can construct questions from chosen variables. Can identify variables in questions. Can make and justify a prediction. Can list the equipment needed to carry out an investigation Can write a method for an investigation.	Can name 3 each of Independent, Dependent and Control Variables. Can construct questions from chosen variables. Can identify variables in questions. Can make and justify a prediction. Can list the equipment needed to carry out an investigation Can write a method for an investigation.	Can name 3 each of Independent, Dependent and Control Variables. Can construct questions from chosen variables. Can identify variables in questions. Can make and justify a prediction. Can list the equipment needed to carry out an investigation Can write a method for an investigation.

						Can identify risks and mitigation procedures associated with an investigation.	Can identify risks and mitigation procedures associated with an investigation.	Can identify risks and mitigation procedures associated with an investigation.
Data gathering	Skills	Making and recording simple observations .	Making observations using simple language. Making	Making observations using simple language.	Can list the types of data that can be gathered in investigations. Can complete	Can list the types of data that can be gathered in investigations. Can complete	Can produce a full plan for an investigation. Can list the types of data that can be gathered in investigations. Can complete	Can produce a full plan for an investigation. Can list the types of data that can be gathered in investigations. Can complete
		g patterns	observations using keyword vocabulary.	observations using keyword vocabulary.	provided results tables. Draw and complete own results tables.	provided results tables. Draw and complete own results tables.	provided results tables. Draw and complete own results tables.	provided results tables. Draw and complete own results tables.
					With help, draw a graph with an appropriate scale on the axes.	With help, draw a graph with an appropriate scale on the axes.	With help, draw a graph with an appropriate scale on the axes.	With help, draw a graph with an appropriate scale on the axes.
					Identifying trends in the data gathered from investigations	Identifying trends in the data gathered from investigations	Draw own graphs from data gathered in investigations.	Draw own graphs from data gathered in investigations.

			Write conclusions	Identifying trends in the data gathered from investigations Write conclusions
				Produce a full data report

Evaluation of	Skills	Similarities	Answering	Answering	State the trend	State the trend	State the trend	State the trend
Investigations		and	questions	questions	in the results.	in the results.	in the results.	in the results.
		differences	using simple	using simple	Charta	Charta	Charta	Charta
		Identifying	language	language	State whether the	State whether the	State whether the	State whether the
		and	Answering	Answering	trend	trend	trend	trend
		classifying	questions	questions	matched the	matched the	matched the	matched the
		15 5	using keyword	using keyword	prediction.	prediction.	prediction.	prediction.
			vocabulary.	vocabulary.				
					Explain how	Explain how	Explain how	Explain how
			Noticing	Noticing	the trend	the trend	the trend	the trend
			patterns and relationships	patterns and relationships	matched, or didn't match,	matched, or didn't match,	matched, or didn't match,	matched, or didn't match,
			remaioristaps	readoriships	the prediction.	the prediction.	the prediction.	the prediction.
				Explaining				
				some of the	List the criteria	List the criteria	List the criteria	List the criteria
				things	needed to	needed to	needed to	needed to
				observed using	decide whether	decide whether	decide whether results gathered	decide whether
				keyword vocabulary	results gathered are valid or not.	results gathered are valid or not.	are valid or not.	results gathered are valid or not.
				Vocasaaag	are value of 1100.	are value of 1100.	are value of 1100.	are value of riot.
					Explain whether	Explain whether	Explain whether	Explain whether
					results gathered	results gathered	results gathered	results gathered
					were valid or	were valid or	were valid or	were valid or
					not.	not.	not.	not.
					Spot anomalies	Spot anomalies	Spot anomalies	Spot anomalies
					in the results	in the results	in the results	in the results
					gathered.	gathered.	gathered.	gathered.
					Explain the	Explain the	Explain the	Explain the
					reason for any anomalies in	reason for any	reason for any	reason for any anomalies in
					the data.	anomalies in the data.	anomalies in the data.	the data.
					c. co cura.	a wall	o, co amais	a to attack
					Suggest how the	Suggest how the	Suggest how the	Suggest how the
					method could be	method could be	method could be	method could be
					improved to	improved to	improved to	improved to
					obtain valid	obtain valid	obtain valid	obtain valid
					data.	data.	data.	data.

					Suggest new questions that are related to the original investigation	questions that are related to the original	Suggest new questions that are related to the original investigations. Design an investigation that could produce similar results. Produce a full scientific report, including planning, data and evaluation.	Suggest new questions that are related to the original investigations Design an investigation that could produce similar results. Produce a full scientific report, including planning, data and evaluation.
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