



KS1 SCIENCE

PROGRESSION - WORKING SCIENTIFICALLY

YR	PATTERN	OBSERVATION OVER	COMPARATIVE & FAIR	IDENTIFY &	RESEARC
3	decide on which sets of data to collect, what observations to make and what equipment to use	decide what observations to make, how often, and what equipment to use.	help to plan a fair test decide what data to collect decide what equipment to use and how to make observations	decide what equipment to use to sort and classify things ask questions about how and why things are similar or different	Select appropriate questions for investigation Explain what secondary sources you can use to answer your question
	use a range of equipment to collect data using standard measures make records using bar charts or simple scatter graphs begin to use and interpret data collected through dataloggers	make records using tables and bar charts begin to use and interpret graphs produced by dataloggers	make records using tables and bar charts begin to use and interpret data collected through dataloggers	carry out simple tests to sort and classify according to properties or behaviour use simple keys and branching databases to identify things record observations in words or pictures, or simple tables	Use evidence from different sources to explain answers to your questions
	talk about patterns using some scientific language suggest improvements to the way patterns were identified	talk about changes using some scientific language suggest improvements to the way observations were made	use simple scientific language to identify and describe simple causal relationships	talk about the similarities and differences identified using some scientific language suggest improvements to the way things were sorted or classified use scientific language to talk about how things are similar or different	Explain how to use other sources to improve/triangulate answers
2	With help, decide what patterns to observe and measure and suggest how to do it	With help, identify changes to change and measure and suggest how to do it	With help, notice links between cause and effect With help, identify variables to change and measure	decide what to observe to identify or sort things	Raise questions to investigate With support, describe how you will answer the question
	use non-standard units and simple equipment to record events that might be related record in words or pictures, or in simple prepared formats such as tables, tally charts and maps	use non-standard units and simple equipment to record changes record in words or pictures, or in simple prepared formats such as tables or charts	use non-standard units and simple equipment to record data record in words or pictures, or in simple prepared formats such as tables and tally charts carry out simple tests use simple equipment to observe and record	sort objects by observable and behavioural features record sorting in sorting circles or tables use simple equipment to help sort things (eg. hoops or boxes)	Describe and use simple evidence sources to answer questions or support their findings
	identify simple patterns make links between two sets of observations talk about whether the pattern was what was expected	identify simple changes and talk about them sequence the changes talk about whether the change was what was expected	interpret and talk about the data With help, explain if the test was fair say if the relationship was what was expected	identify similarities and differences and talk about them	Evidence used is appropriate to give a valid answer to the question
1	Recognise simple patterns With support, ask questions about patterns	curious about things that change With help, ask questions about things changing	curious about how things behave talk about ideas for testing how things behave	curious about similarities and differences With help, ask questions about similarities and differences	With support, identify appropriate questions to investigate Ask questions stimulated by their exploration of their world
	Use senses to observe and identify patterns	look closely at how things change make simple observations of how things change (with help where necessary)	use senses to look closely at how things behave make simple records of what was notice (with help where necessary)	use senses to sort and match things match things that are the same find things that are similar or different	With support use a source of information to answer a question
	Talk about what has been done and the patterns identified	talk about what was done and what was noticed	talk about what was done and what was noticed	talk about how things were sorted or matched	The answer to the question makes sense