

Progression of Science skills -Sc1 (knowledge are covered in accordance with curriculum)

SC1 Skills – FS	
Skills	Examples (how might this look?)
Asking simple questions	Modelling through play
Making observations	Drawing, talking, looking, describing what we see
Hearing and using basic scientific language	Modelled by adults – seasons, animals etc
SC1 Skills -	- Year 1
Skills	Examples (how might this look?)
Asking simple questions	Use of sentence stems e.g.Why does What
	would happen if
Using their observations and ideas to suggest answers	Observing beans – suggest why one has/ hasn't
to questions and predicting	grown as well as the others
Observing closely, using simple equipment	Beginning to take basic measurements e.g. rainfall
SC1 Skills – Year 2	
<u>Skills</u>	Examples (how might this look?)
Recognising questions can be answered in different	Grouping, classifying – knowing there is more than
ways	one way – how can you explain this to a child,
	adult etc.
Performing simple tests and displaying it in their own	Listing equipment, proformas giving example
way	structures for 1 star and 3 star next steps
Identifying and classifying	Using varied models to classify materials, plants e.g.
	 – 2 hoop pictures, Venn diagrams, Carroll diagrams
Gathering and recording data to help in answering	Concrete, pictorial and abstract ideas. Can you use
questions	your results to ask a question?
SC1 Skills -	- Year 3
<u>Skills</u>	Examples (how might this look?)
Asking relevant questions and using different types of	Pose a question for an investigation e.g. conditions
scientific enquires to answer questions	for germination
Setting up simple and practical enquires, comparative	Identifying variables. Asking: How is this a fair test?
and fair tests	What is unfair? How could this be improved?
Making systematic and careful observations	1 star – closed questions
	2 star – what did you notice? How does this
	compare?
	3 star – (as 2 star) with conclusions
Reporting on findings from enquiries including oral and	1 star – define
written explanations, displays or presentations of	2 star – compare
results and conclusions	3 star - predict
Identifying differences, similarities and changes related	Concrete, pictorial and abstract ideas. Can you
to simple scientific ideas and processes	explain a process using flow charts, diagrams?
SC1 Skills – Year 4	
Skills	Examples (how might this look?)
Gathering, recording, classifying and presenting data in	Photos of experiment results, notes of observations,
a variety of ways to help answer questions	graphs
Taking accurate measurements using standard units a	Measuring distance, length, time, volume,
range of equipment including thermometers and data	temperature
loggers	
Recording findings using simple scientific language,	Word bank - cloze procedure (1 star)
drawings, labelled diagrams, keys, bar charts and tables	Milest de very geties 2 Milestics - La sur d'2 Milestics - La
Using results to draw simple conclusions, make predictions for new values, suggest improvements and	What do you notice? What's changed? What would happen if? Was our test fair? Why/ Why not?
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raise further questions	
Using straightforward scientific evidence to answer	Write up results. Ask: Why has this happened? What
questions or to support their findings	would happen if?
SC1 Skills – Year 5	
Skills	Examples (how might this look?)
Planning different types of scientific enquiries to answe	er 1 star- pick correct idea for variable
questions including recognising and controlling	2 star – write variables
variables where necessary	3 star – write 2 experiments with different variables
Taking measurements using a range of scientific	Pick out odd results, why? Is it important? Write
equipment	equipment lists. Convert measurements. Discuss
	which provides the best measurement.
Use test results to make predictions to set up further	How would you improve? Could you design an
comparative and fair tests	improved experiment?
SC1 Skills – Year 6	
<u>Skills</u>	Examples (how might this look?)
Taking measurements using a range of scientif	ic Measuring the voltage of different bulbs and the
equipment with increasing accuracy and precision	n, amount of current running through a circuit –
taking repeat readings where appropriate	creating tables and concluding findings
Recording data and results of increasing complexity	Creating food chains and classification keys to
using scientific diagrams and labels, classification keys,	identify species of animals including key scientific
tables, scatter graphs, bar and line graphs	terms such as vertebrae.
Reporting and presenting findings from enquiries,	Children to choose how they wish to present their
including conclusions, casual relationships and	findings from an experiment. e.g. create a bar graph
explanations of and degree of trust in results, in oral	to show the distance a light source can travel and
and written forms such as displays and other	write a conclusion of what the graph shows. Pose
presentations	key questions regarding next steps.
Identifying scientific evidence that has been used to	Looking at research from the work of scientists such
support or refute ideas or arguments	as Jenner and Pasteur, finding out how their
	discoveries improved people's health. Test the
	arguments in class and discuss.