



Progression in Working Scientifically Skills

	Plan		Do		Record		Review		
	To ask scientific questions	To plan an enquiry	To measure accurately	To observe closely	To present results	To gather/record results	To draw conclusions	To interpret conclusions	Evaluating Outcomes
EYFS	Asking questions about aspects of their familiar world.	Generating a variety of ideas for testing.	Measure by direct comparison. Non-standard units of measurement. Simple comparative vocabulary- largest, smallest.	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.	Talking about objects and events Simple recording- pictures/images	NA	Noticing 'which worked best'- simple comparative statements. Answer initial questions simply. Answer how and why questions about their experiences.		NA

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Classification	Be able to ask a yes/no question to aid sorting	Identify the headings for the two groups (it is.., it is not...)	Be able to compare objects based on obvious, observable features e.g. size, shape,	NA	NA	Sort objects and living things into two groups using a basic Venn	Children in KS1 are not expected to draw conclusions, but should still ask them	Talk about the number of objects in each group e.g. which has more or less.	NA



			colour, texture etc.			Diagram or simple table.	why they think things happens.		
Research	Ask one or two simple questions linked to a topic	NA	NA	NA	Present what they have learnt verbally or using pictures	NA		Be able to answer their questions using simple sentences.	
comparative/fair testing	Identify the questions to investigate from a scenario or choose a question from a range provided.	Choose equipment to use, decide what to do and what to observe or measure in order to answer the question.	When appropriate, measure using standard units where all the numbers are marked on the scale.	Make observations linked to answering the questions.	Answer their questions in simple sentences using their observations or measurements.	Present what they learnt verbally, using pictures or block diagrams.		NA	
observation over time	Ask a question about what might happen in the future based on an observation				Present what they learnt verbally or using pictures.	Record data in simple prepared tables, pictorially or by taking photographs		Answer their questions in simple sentences using their observations or measurements.	
Pattern seeking	Ask a question that is looking for a pattern based on observations.				Present what they learnt verbally.	Record data in simple, prepared tables and tally charts,		Answer their question in simple sentences using their observations or measurement.	