Asking Questions and C	Carrying Out Fair Tests						
Skills Progression							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Explore the world around them, leading them to ask some simple scientific questions about how and why things happen.		Start to raise their own relevant questions about the world around them in response to a range of scientific experiences.		With growing independence, raise their own relevant questions about the world around them in response to a range of scientific experiences.			
Begin to recognise ways in which they might answer scientific questions.		Start to make their own decisions about the most appropriate type of scientific enquiry they might use to answer questions.		With increasing independence, make their own decisions about the most appropriate type of scientific enquiry they might use to answer questions.			
Ask people questions and use simple secondary sources to find answers.		Recognise when a fair test is necessary. Help decide how to set up a fair test, making decisions about		Explore and talk about their ideas, raising different kinds of scientific questions.			
Carry out simple practical tests, using simple equipment.			ow long to make them for and	Ask their own questions about scientific phenomena.			
Experience different types of scientific enquiries, including practical activities.		Set up and carry out simple co	omparative and fair tests.	Select and plan the most appropriate type of scientific enquiry to use to answer scientific questions.			
Talk about the aim of scientific tests they are working on.					out what observations to make, and how long to make them for,		
				Plan, set up and carry out co answer questions, including variables where necessary.	•		
				Use their test results to ident observations may be needed predictions for further tests	•		

Observing and Measuring Changes.							
Skills Progression							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Observe the natural and humanly constructed world around them		Make systematic and careful observations.		Choose the most appropriate equipment to make measurements and explain how to use it accurately.			
		Observe changes over time.					
Observe changes over time		Take measurements using a range of scientific equipr		ange of scientific equipment			
			cluding thermometers and data	with increasing accuracy and precision.			
Use simple measurements an	Use simple measurements and equipment		loggers				
				Make careful and focused observations.			
Make careful observations, sometimes using equipment to		Ask their own questions about what they observe.					
help them observe carefully.		Know the importance of taking repeat readings and		g repeat readings and take			
		Where appropriate, take accu standard units using a range c	0	repeat readings where appro	oriate.		

Skills Progression							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Use simple features to compare objects, materials and living things		Talk about criteria for grouping, sorting and classifying.		Independently group, classify and describe living things and materials.			
-		Group and classify things.					
Decide how to sort and classify objects into simple groups				Use and develop keys and other information records to			
with some helpc		Collect data from their own observations and identify, classify and describe living things measurements.		living things and materials.			
Record and communicate findings in a range of ways with				Decide how to record data from a choice of familiar			
support.		Present data in a variety of wa questions.	iys to help in answering	help in answering approaches.			
Sort, group, gather and record data in a variety of ways to help in answering questions such as in simple sorting diagrams, pictograms, tally charts, block diagrams and simple tables.		Use, read and spell scientific vocabulary correctly and with confidence, using their growing word reading and spelling knowledge.		Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar graphs and line graphs.			
		Record findings using scientifi diagrams, keys, bar charts and					

Drawing Conclusions, Noticing Patterns and Presenting Findings. Practical skills and techniques							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Notice links between cause and effect with support.		Draw simple conclusions from their results.		Notice patterns.			
Begin to notice patterns and relationships with support.		Make predictions.		Draw conclusions based in their data and observations.			
Begin to draw simple conclusions.		Suggest improvements to investigations.		Use their scientific knowledge and understanding to explain their findings.			
Identify and discuss differences between their results.		Raise further questions which could be investigated.		0			
Use simple and scientific language.		First talk about, and then go on to write about, what they have found out.		Read, spell and pronounce scientific vocabulary correctly. Identify patterns that might be found in the natural			
Read and spell scientific vocabulary at a level consistent with				environment.			
their increasing word reading and spelling knowledge at key stage 1.		Report and present their results and conclusions to others in written and oral forms with increasing confidence. Look for different causal relationship		ionships in their data.			
Talk about their findings to a variety of audiences in a variety of ways.				Discuss the degree of trust they can have in a set of res			
				Independently report and pres in oral and written forms.	sent their conclusions to others		

Using Scientific Evidence and Secondary Sources of Information							
Skills Progression							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
'		Make links between their own science results and other scientific evidence;. Use straightforward scientific evidence to answer questions		Use primary and secondary sources evidence to justify ideas Identify evidence that refutes or supports their ideas.			
		or support their findings.		Recognise where secondary sources will be most useful to research ideas and begin to separate opinion from fact.			
		Identify similarities, differences, patterns and changes					
		relating to simple		Use relevant scientific language and illustrations to discuss,			
		Scientific ideas and processes.		communicate and justify their scientific ideas.			
		Recognise when and how second them to answer questions that practical investigations.	ondary sources might help t cannot be answered through	Talk about how scientific ide	as have developed over time.		