

Science	Building Skills and Disciplinary Knowledge	Approaches to Developing Skills and	Building Substantive	Approaches to	Curricula	Assessed through (T1 T2 T3)		
Activity		Disciplinary Knowledge	Knowledge and	Developing	Materials	Scientific Enquiry		
			Understanding	Substantive Knowledge and		Planning & Presenting		
				Understanding		Criti	cally Obser	ving/
				onderstanding		Class	ifying/ Evalu	uating
						Scientific Knowledge		edge
Scientific	 Can raise questions about the world around them Can talk about criteria for grouping, certing and classifying, and use simple keys 	 Create a topic Mind Map to encourage children to ask questions 				Most children	Some	Some children
Linquiry	 Can begin to look at for naturally occurring natterns and relationships and decide what 	Introduce and model practical activities	 Pupils should develop knowledge about the 	Teacher led	Animais	will be	will not yet	are
	data to collect to identify them	involving skills of investigating, contrasting,	world around them and	presentations	Includin	able to	be able	confidently
	 Can suggest simple ideas and suggest how to find things out 	analysing, recording	how they have an impact	Opportunities for recearch	σ	(working	to	able to
	 Can make and record a prediction before testing 	Make observations	on that	modelled by	ð Llungara	al)	towards))
	Can explain a fair test and explain why it was fair?	Review of investigations against criteria	 Identify that animals 	Teacher	Humans		,	,
	Can make up a simple fair test to make comparisons	 Out of the classroom learning experiences to support enquiry 	including humans, need	Opportunities	and			
Planning	 Can measure using different equipment and units of measure 	Teacher led lessons demonstrating skills of	the right types and	for children to				
and	 Can record observations in different ways (labels, diagrams, charts) 	investigating, recording, analysing	amount of nutrition and	own curiosity	Plants			
Presenting	 Can describe what they have found using scientific vocabulary 	 Modelling use of scientific vocabulary in 	they get this nutrition	and research	FIGILS			
	Can identify differences, similarities or changes related to simple scientific ideas and	comparisons, contrasts, investigations	• Observe rocks . including	their own				
	 Can use straightforward scientific evidence 	• To use relevant scientific language to discuss their ideas and communicate their findings in	those in buildings and	questions				
	 Can make accurate measurements using standard units 	ways that are appropriate for different	gravestones, exploring	Research opportunities				
	• Can use relevant scientific language to discuss their ideas and communicate their	audiences	how and why they might	through				
	findings in ways that are appropriate for different audiences	 Planned practical activities to engage children in a base activities 	• To begin to have an	home/school				
Critically	. Con call valavant avaatians vains connect ariantifia vaash vlanv	above activities	understanding of forces	learning	TEDMO			
Observing/	 Can ask relevant questions using correct scientific vocabulary Can gather record classify and present data in a variety of ways to beln answer 	 Observing changes over time Investigating habitats and environments 	 Notice that some forces 	projects	Deelee			
Classificatio	questions	Learning to compare and contrast	need contact between	opportunities	ROCKS			
n/	• Can record findings using simple using drawings, labelled diagrams, charts and tables.	 Talking about what they have learnt and 	two objects , but	for use of and				
Evaluating	 Can report findings from enquires, including oral and written explanations 	observed	at a distance	access to				
	• Can, with support, identify new questions arising from data, making predictions within	Begin to record data	 They should understand 	varied				
	or beyond the data they have collected and finding ways to improve what they have already done		and use basic subject	 School visits to 				
Scientific	 Can understand and use the correct scientific vocabulary related to the topic 	 Planned opportunities to observe, investigate 	specific vocabulary	places and				
Knowledge	 Can observe, comment and ask questions about the world around them 	and comment using scientific vocabulary based	topic	organisations				
	 Can connect ideas from previous learning and experiences 	on topics and experiences	• To understand that	related to topic				
	Can learn about change through observations and practical experiences and activities	Opportunities for children research their own line of enquiry	magnets attract or repel	and learning				
	 Can, with support to set up an investigation Can begin to gain an understanding of fair testing 	• To understand when and how secondary	each other and attract					
	 Can know where to access information (books, internet sources) 	sources might help them to answer questions	others					
		that cannot be answered through practical	 Be confident to ask 					
		investigations	questions and know					
Maths links	 Can use labels, diagrams and charts to record their observations 	Planned opportunities depending on topic such	where to research the		TERM3:			
	 Can compare objects, plants, animals by size, height and weight 	as deciding how to present findings via tally	 To make predictions in a 		Forces			
	• Can take accurate measurements using standard units, using a range of equipment,	counting, graphs, and data analysis or measures	safe learning		and			
	including thermometers		environment		and			
SMSC	Can accurately interpret these measurements Can work with others of different religious, other and socioesenemic backgrounds	Plan visits, onnortunities to investigate with a	 Confidently use simple sciontific aquipment to 		Magnets			
511150	according to given briefs wider knowledge of Y3 science curriculum	group or partner	make observations					
	Can resolve conflicts and differing opinions should these arise	 Plan visits in the local environment 	 Record and classify 		Light			
	Can reflect on choices	 Visit Parks, Museums, laboratories 	findings in simple ways					
	Can investigate and offering views on ethical issues in topics studied				and			
	Can show willingness to explore and understand scientific beliefs from a variety of cultural backgrounds				Shadow			
	 Can study science, and investigate with a team knowledge of the wider world, including 							
	interviewing with older people, archaeologists, and museum and exhibition personnel							