Science Disciplinary Literacy Framework Think like a Scientist

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Reading			Writing			Speaking and Listening						
 Move between texts and graphics Ability to read multi-modal texts Analytical perspective encompassing a range of viewpoints Seeks out trends and patterns Decipher word problems Specific vocabulary that can be easily confused Reading with precision Contextualising 			 Lack of personal presence Objective stance Precise vocabulary Use of strong verbs Method writing Structured note taking Analytical writing Factual accuracy and tentative language Evaluation 			 Use formal vocabulary related to analytical writing at all times: describing trends, describing quantities, establishing a relationship or contrast and conclusion/other connecting phrases Eye contact at all times (from speaker and audience) Use key vocabulary with accuracy Project loudly and clearly using full sentences Replace fillers with precise, academic language Listen attentively: paraphrasing may be required! 						
Strategies/pedagogy to support												
C c c c u	 Reciprocal reading Close reading of text via text dependent of mbining reading with write Bedrock mapper sequent Providing reading texts to Reading combined with 	ts supported and assessed questions iting: aced to pre-teach vocabulary that support expectations for note taking, answering quest ear 9)	need	 Sentence crafting Modelling analytical writing, explanations, arguments and descriptions. eeded to support reading and writing scientific writing ons about texts and summarising (guided reading) 			 Accountable talk ABC feedback Talk for writing (structured talk) & paired writing Paraphrasing Upgrading learner responses Using images to structure talk 					
	HT1	HT2		HT3	HT4		HT5	HT6				
•	Comparing atomic models and separating mixtures (using images to structure writing, sentence crafting and modelling) Energy resources	 The Heart (using dissection and images to structure writing and identifying explicit vocabulary instruction and sentence crafting) Immunity & 	•	Discovery of Drugs (reciprocal reading and combining reading with writing) Crystallisation: method writing and following written	 Predator-prey cycle (using formal vocabulary related to analytical writing to help describe trends and quantities in writing and speaking) 	•	Current in a circuit & Circuit symbols (descriptive dialogue used to identify circuit symbols) Periodic table and Mendeleev (reciprocal	 Microscopy: comparing microscopes reciprocal reading and method writing (combining reading/talk with writing/sentence 				

comprehension	Vaccination (providing	instructions	Genetic Engineering	reading and combining	crafting)
(reciprocal reading	wider context for	(combining reading	(structure debate to	reading with writing)	Active transport, Stem
and combining reading	students to form and	with writing)	lead to paraphrasing		Cell and Meristem
with writing)	vocalise their opinions		content)		comprehension
	through structured				(reciprocal reading
	debate)				with writing)