CO-CONSTRUCTED					
SELF ASSESSMENT	Prestructural	Unistructural	Multistructural	Relational	Extended Abstract
RUBRIC	Learning outcomes show unconnected information, no organisation. <i>E.g. "I need help</i> or direction"	Learning outcomes show simple connections but importance not noted. E.g. "I will have a tilt at it"	Learning outcomes show connections are made, but significance to overall meaning is missing. <i>E.g. I will use trial and</i> <i>error to find a solution"</i>	Learning outcomes show full connections made, and synthesis of parts to the overall meaning E.g. <i>"I plan to do X because it will … I know what to</i> <i>do and why …"</i>	Learning outcomes go beyond subject and makes links to other concepts - generalises <i>E.g. "I</i> sense what to do to find the best solutionI seek feedback and adjust my actions in response "
NoS Criteria	I need help to check for consistency in a scientific	If directed I repeat the experiment to see if I get	I usually repeat my experiment to check if I get	I repeat my experiment to check if I get similar results.	I am skilled and active in repeating my experiments
For example	experiment or statement.	similar results.	similar results.	I work strategically/ purposefully to make sure all	and controlling variables to check for consistency in the
• C onsistent,	[Consistency: Repeated	If directed I check for similar claims for a scientific	l usually check for similar claims for a scientific	variables in the repeated experiment remain the	results. I seek feedback from others
• Observable,	experiments performed by competent researchers	statement	statement BUT I am not sure why I do	same.	on how I can improve the consistency of my
• Natural,	giving similar results.]		this or what to do if I do not get consistent results.	I check for similar claims for a scientific statement AND	experimental approach. I give feedback on the
• P redictable,				the expertise and experience of the person making the	consistency of other's experiments and suggest
• Testable, and				claim.	ways to improve consistency.
• Tentative.				I know why, when and how I need to repeat my experiment to check for consistency.	I check on similar and dissimilar claims for a scientific statement AND judge the expertise and experience of the persons making the claims.
Effective Strategies					

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RUBRIC	Learning outcomes show unconnected information, no organisation. E.g. "I need help or direction"	Learning outcomes show simple connections but importance not noted. <i>E.g. "I will have a tilt at</i> <i>it"</i>	Learning outcomes show connections are made, but significance to overall meaning is missing. <i>E.g. I will use trial and</i> <i>error to find a solution</i> "	Learning outcomes show full connections made, and synthesis of parts to the overall meaning E.g. "I plan to do X because it will I know what to do and why"	Learning outcomes go beyond subject and makes links to other concepts - generalises E.g. "I sense what to do to find the best solutionI seek feedback and adjust my actions in response "
NoS Criteria	I need help to observe the event.	I can observe the event if directed.	I can observe the event (or evidence from the event) but	I can observe the event (or evidence from the event)	I can observe the event (or evidence from the event)
For example	Observable: The event	unecteu.	I am not sure what I am looking for.	and explain what I am looking for and why I am	and explain what I am looking for and why I am
• C onsistent,	under study, or evidence of the occurrence of the event,			looking for it.	looking for it. I seek feedback from others to
• Observable,	can be observed and explained.]				improve my observation of the event.
• Natural,					
• P redictable,					
• Testable, and					
• Tentative.					
Effective Strategies					



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RUBRIC	Learning outcomes show unconnected information, no organisation. E.g. "I need help or direction"	Learning outcomes show simple connections but importance not noted. E.g. "I will have a tilt at it"	Learning outcomes show connections are made, but significance to overall meaning is missing. <i>E.g. 1 will use trial and</i> <i>error to find a solution"</i>	Learning outcomes show full connections made, and synthesis of parts to the overall meaning E.g. "I plan to do X because it will I know what to do and why"	Learning outcomes go beyond subject and makes links to other concepts - generalises E.g. "I sense what to do to find the best solutionI seek feedback and adjust my actions in response "
NoS Criteria	I need help to explain the	I can identify a natural cause	I can identify a natural cause	I can identify a natural cause	I can identify a natural cause
For example Consistent, Observable, Natural, Predictable, Testable, and Tentative.	natural cause of an event. [Natural: A natural cause (mechanism) must be used to explain why or how the naturally occurring event happens.]	for an event if directed.	for an event but I cannot justify my decision.	for an event and explain why I believe it is a natural cause.	for an event and explain why I believe it is a natural cause. I seek feedback from others on any unwarranted assumptions and or alternative explanations to improve my explanation.
Effective Strategies					



CO-CONSTRUCTED					
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RUBRIC	Learning outcomes show unconnected information, no organisation. E.g. "I need help or direction"	Learning outcomes show simple connections but importance not noted. E.g. "I will have a tilt at it"	Learning outcomes show connections are made, but significance to overall meaning is missing. <i>E.g. I will use trial and</i> <i>error to find a solution"</i>	Learning outcomes show full connections made, and synthesis of parts to the overall meaning E.g. "I plan to do X because it will I know what to do and why"	Learning outcomes go beyond subject and makes links to other concepts - generalises E.g. "I sense what to do to find the best solutionI seek feedback and adjust my actions in response "
NoS Criteria	I need help to make a	I can make a prediction	I can make a prediction	I can make a prediction	I can make a prediction
For example	prediction based on the natural cause of an event.	based on the natural cause of an event if directed.	based on the natural cause of an event but I cannot test my prediction to determine	based on the natural cause of an event and I can test the reliability of my prediction to	based on the natural cause of an event and I can test the reliability and validity of my
• C onsistent,	[Predictability: The natural cause (mechanism) of the		if it is true or false.	determine if it is true or false.	prediction to determine if it is true or false.
• Observable,	naturally occurring event can be used to make specific				I seek feedback from others
• Natural,	predictions. Each prediction can be tested to determine				on how I can improve the validity and reliability of my
• Predictable,	if the prediction is true of false.]				test.
Testable, and					
• Tentative.					
Effective Strategies					



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NoS Criteria	I need help to test the cause of a naturally occurring	I can test the cause of a naturally occurring event	I can test the cause of a naturally occurring event	I can test the cause of a naturally occurring event	I can test the cause of a naturally occurring event
For example	event using a controlled experiment.	using a controlled experiment, if directed.	using a controlled experiment, but I am not	using a controlled experiment. I can explain the	using a controlled experiment. I can explain the
• C onsistent,	[Testability: The natural		sure of the reasons behind what I am doing so I make	reasons behind each of the steps I take.	reasons behind the steps I take.
• Observable,	cause (mechanism) of the naturally occurring event		mistakes.		I seek feedback from others
• Natural,	must be testable through the processes of science,				on how I can improve the validity and reliability of my
• P redictable,	controlled experimentation being essential.				testing process.
 Testable, and 					
• Tentative.					
Effective Strategies					



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RUBRIC	Learning outcomes show unconnected information, no organisation. E.g. "I need help or direction"	Learning outcomes show simple connections but importance not noted. <i>E.g. "I will have a tilt at</i> <i>it</i> "	Learning outcomes show connections are made, but significance to overall meaning is missing. <i>E.g. I will use trial and</i> <i>error to find a solution"</i>	Learning outcomes show full connections made, and synthesis of parts to the overall meaning E.g. "I plan to do X because it will I know what to do and why"	Learning outcomes go beyond subject and makes links to other concepts - generalises E.g. "I sense what to do to find the best solutionI seek feedback and adjust my actions in response "
NoS Criteria	I need help to explain why a scientific idea/theory may be	l can identify one reason why a scientific idea/theory	I can identify several reasons why a scientific idea/theory	I can identify several reasons why a scientific idea/theory	I can identify several reasons why a scientific idea/theory
For example	tentative (not certain, subject to revision).	may be tentative (not certain, subject to revision),	may be tentative (not certain, subject to revision).	may be tentative (not certain, subject to revision)	may be tentative (not certain, subject to revision)
• C onsistent,	[Tentativeness: Scientific	if directed.		and explain why these reasons are relevant.	and explain why these reasons are relevant.
• O bservable,	theories are subject to revision and correction, even				l can provide evidence to
• Natural,	to the point of the theory being proven wrong.]				support the validity of my reasons.
• P redictable,					
• Testable, and					
• Tentative.					
Effective Strategies					

