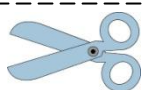# Scientific Method Standards (Performance Objective)

Unit	Standards (Performance Objective)	TYPE OF Summative Assessment*	ORIGINAL Summative Assessment Grade	RETAKE Summative Assessment Grade
	S1, C1, PO 2. Develop questions from observations that transition into testable hypotheses. S1, C1, PO 3. Formulate a testable hypothesis.	Test		
	S1, C1, PO 4. Predict the outcome of an investigation based on prior evidence, probability, and/or modeling (not guessing or inferring).	Test		
	S1, C2, PO 1. Demonstrate safe and ethical procedures (e.g., use and care of technology, materials, organisms) and behavior in all science inquiry. S1, C2, PO 2. Identify the resources needed to conduct an investigation.	Lab report		
	S1, C2, PO 3. Design an appropriate protocol (written plan of action) for testing a hypothesis: • Identify dependent and independent variables in a controlled investigation. • Determine an appropriate method for data collection (e.g., using balances, thermometers, microscopes, spectrophotometer, using qualitative changes). Determine an appropriate method for recording data (e.g., notes, sketches, photographs, videos, journals (logs), charts, computers/calculators).	Test		
	S1, C2, PO 5. Record observations, notes, sketches, questions, and ideas using tools such as journals, charts, graphs, and computers. S1, C3, PO 1. Interpret data that show a variety of possible relationships between variables, including: • positive relationship • negative relationship no relationship S1, C3, PO 2. Evaluate whether investigational data support or do not support the proposed hypothesis.	Test		
	S1, C3, PO 4. Evaluate the design of an investigation to identify possible sources of procedural error, including: • sample size • controls • trials • analyses	Test		
	S1, C3, PO 7. Propose further investigations based on the findings of a conducted investigation	Lab report/Test		
	S1, C4, PO 3. Communicate results clearly and logically.	Lab report		
	S1, C4, PO 4. Support conclusions with logical scientific arguments.	Test		

* Type of Assessment is subject to change

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