Practice 7: Engage in Argument from Evidence

Assessment Task (from <u>SEP Task Format</u>: Engage in Argument from Evidence, Task 2) Describe a phenomenon (insert phenomena specific to content area/course) to students, then

- Ask students to articulate (construct) a claim about that phenomenon, and
- Identify evidence that supports the claim, and
- Articulate the scientific principle(s) that connect each piece of evidence to the claim.

Argument Template

Standard: Construct an argument supported by empirical evidence to support or refute an explanation					
NA	Beginning (1)	Progressing (2)	Meets (3)	Exceeds (4)	
No Attempt	Demonstration of foundational skills while working toward the cognitive rigor required of the grade-level standard	Progression toward the cognitive rigor required of the grade-level standard	Independent demonstration of cognitive rigor required of grade-level standard	In-depth demonstration beyond the cognitive rigor required of grade-level standard	
	I can	I can	I can	I can	
	Identify the components of an argument	Construct an argument with evidence	Construct an argument supported by empirical evidence to support or refute an explanation	Respectfully critique a classmate's argument OR Co-design a demonstration of deeper learning.	
Quality Criteria					
	Identifies:	Argument includes	Argument includes Claim Evidence Supports/refutes the claim Data/evidence collected from observations or experiments	Critique includes:	

connects to the explanation

Standard: Construct an argument supported by empirical evidence

Clarification Statement: Emphasis is on recognizing patterns in data and making warranted inferences about changes in populations, and on evaluating empirical evidence supporting arguments about changes to ecosystems.

NA	Beginning (1)	Progressing (2)	Meets (3)	Exceeds (4)
No Attempt	Demonstration of foundational skills while working toward the cognitive rigor required of the grade-level standard	Progression toward the cognitive rigor required of the grade-level standard	Independent demonstration of cognitive rigor required of grade-level standard	In-depth demonstration beyond the cognitive rigor required of grade-level standard
	I can	I can	I can	I can
	Define empirical evidence.		Construct an argument supported by empirical	Critique a classmate's argument
	Use valid evidence to support a claim. (SEP) Identify relationships as causal or correlational using	Identify relationships as	evidence	

	valid and reliable sources.		
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