When accomplished STEM teachers
anchor instruction in complex and puzzling natural events
they may do one or more of the following:

___ Explicitly encourage and celebrate curiosity, inquisitiveness, and an inquiry stance to STEM content and learning (T28)
___ Pose questions, puzzling events, tasks, and activities that have multiple entry points (T98) Δ
___ Pose questions, puzzling events, tasks, and activities that have multiple methods for making sense of or solving them (T99) ✪ Δ *
___ Pose questions, puzzling events, tasks, and activities that have multiple solutions, explanations or justifications (T100) Δ
___ Provide models, arguments, and ideas to compare and contrast (e.g., provide examples and non-examples for simultaneous consideration) (T139)
___ Provide rich data (e.g., a natural, puzzling event) (T134) Δ

In these classrooms we expect to see a diverse range of students...

___ Continuing to engage with the given task(s) even when feeling stuck, frustrated, and/or on the wrong track (S63) ✪ *
___ Defining and clarifying the task(s) at hand for themselves or others (S3) ✪
___ Demonstrating genuine curiosity in new ideas (S46)
___ Designing ways to investigate questions or complete tasks, including choosing appropriate variables, techniques, and tools to gather, record, and analyze givens/data (S4) ✪
___ Generating questions, models, and theories to investigate (S5)
___ Planning and carrying out investigations or solution strategies (S7)

Evidence Checklist	**Core Practice:** Elicit, represent, and capitalize on student ideas

When accomplished STEM teachers
anchor instruction in complex and puzzling natural events
they may do one or more of the following:

ALWAYS		**STRATEGICALLY**	
More Straightforward:	*More Challenging:*	*More Straightforward:*	*More Challenging:*
___ Explicitly encourage and celebrate curiosity, inquisitiveness, and an inquiry stance to STEM content and learning (T28)	___ Pose questions, puzzling events, tasks, and activities that have multiple entry points (T98) Δ ___ Pose questions, puzzling events, tasks, and activities that have multiple methods for making sense of or solving them (T99) ✪ Δ * ___ Pose questions, puzzling events, tasks, and activities that have multiple solutions, explanations or justifications (T100) Δ	___ Provide models, arguments, and ideas to compare and contrast (e.g., provide examples and non-examples for simultaneous consideration) (T139)	___ Provide rich data (e.g., a natural, puzzling event) (T134) Δ

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