Evidence Checklist

Core Practice: Use STEM Content Knowledge Strategically

When accomplished STEM teachers recognize and respond to common patterns in student thinking they may do one or more of the following:

Name models, arguments, and ideas as typical or common (T70)
Anticipate and validate different ideas and ways of expressing those ideas (T84) Δ
Anticipate and validate myriad ways of making sense of, solving, explaining, and justifying ideas (T85) Δ
Anticipate and create space for common errors and misconceptions to arise and be explored (T136) Δ
Draw on knowledge of students' previous work and thinking (T125)
Explicitly focus students' attention on common/typical models, arguments, explanations, and ideas
(T127)
Use typical or common student ideas strategically (T130)

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

Actively using mistakes as learning opportunities (S8) 🚭 *
Identifying and analyzing mistakes and misconceptions (S28)
Making connections between prior content/learning and current content/learning (i.e., demonstrating
transfer) (S31)

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ALWAYS	STRATEGICALLY	
	More Straightforward:	More Challenging:
Draw on knowledge of students' previous work and thinking (T125) Anticipate and validate different ideas and ways of expressing those ideas (T84) Δ Anticipate and validate myriad ways of making sense of, solving, explaining, and justifying ideas (T85) Δ Anticipate and create space for common errors and misconceptions to arise and be explored (T136) Δ	Name models, arguments, and ideas as typical or common (T70) Explicitly focus students' attention on common/typical models, arguments, explanations, and ideas (T127)	Use typical or common student ideas strategically (T130)

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