From Performance Expectations to Assessments

NSTA Professional Development Institute

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Empower You To Be Next Generation Assessment Designers
Typical Assessment Design

1. Identify Performance Expectations
2. Tasks and Rubrics

- **Implicit** design decisions
- **Inconsistent** elicitation of core ideas, practices and cross-cutting concepts
- **Unexplained variation** in contexts, difficulty, evidence elicited from students, and approaches for scoring across tasks
Design Approach

Intentional and Explicit
• Identify key aspects and skills
• Describe evidence
Design Approach

1. Identify Performance Expectations

2a. Unpack Science Practices

2b. Unpack Disciplinary Core Ideas

2c. Unpack Crosscutting Concepts

- Elaborate Major Ideas
- Define Boundary Conditions
- Describe Prior Knowledge
- Identify Student Challenges
- Brainstorm Phenomena
Design Approach

- Describe essential features
- Identify substantive intersections with science practices and disciplinary core ideas
Design Approach

1. Identify Performance Expectations
   - 2a. Unpack Science Practices
   - 2b. Unpack Disciplinary Core Ideas
   - 2c. Unpack Crosscutting Concepts

3. Assessment Argument
   - Performance Expectations (PEs)
     - Evidence Statements for Each PE
     - Task Design Features to Elicit Desired Evidence

4. Tasks and Rubrics
   - Task Authoring Environment and Delivery Requirements