Uncovering Student Ideas in Science, Volume 1: 25 Formative Assessment Probes

Author(s): Page Keeley, Francis Eberle and Lynn Farrin

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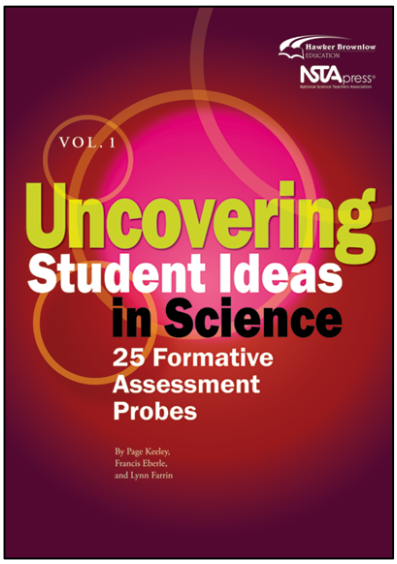

Summary

Uncovering Student Ideas in Science is loaded with classroom-friendly features to pinpoint what your students know (or think they know) so you can adjust your teaching accordingly. At the book's heart are 25 "probes." These brief, easily administered activities will determine your students' thinking on 44 core science topics, grouped by light, sound, matter, gravity, heat and temperature, life science, and Earth and space science.

The probes are invaluable formative assessment tools to use before you start a topic or unit. The accompanying teacher materials

- Explain science content
- Give connections to various national standards
- Present developmental considerations
- Summarize relevant research on learning
- Suggest instructional approaches for elementary, middle, and high school students

Other books discuss students' general misconceptions. Only this one provides reproducible pages you can use to discover student thinking on everything from Moon phases to conservation of matter. Each probe—field-tested across multiple grade levels—is proven effective for helping your students recover from erroneous ideas about science.

Other Resources

- *Uncovering Student Ideas in Science, Volume 2: 25 More Formative Assessment Probes* (NST0676)
- *Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes* (NST0683)
- *Uncovering Student Ideas in Science, Volume 4: 25 New Formative Assessment Probes* (NST0690)
- *Designing Effective Science Instruction: What Works in Science Classrooms* (NST0782)