

## Uncovering Student Ideas In Science

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Author Bio Page Keeley — Uncovering Student Ideas Uncovering Student Ideas in Science, Volume 2: 25 More Formative Assessment Probes: Page Keeley, Francis Eberle, Joyce Tugel: Amazon.com.au: Books

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Uncovering Student Ideas in Science, Volume 1 by Page ... Nationally known science educator Page Keeley—principal author of the hugely popular, four-volume NSTA Press series Uncovering Students Ideas in Science—has teamed up with physicist and science educator Rand Harrington to write this first volume in their new series on physical science. They begin with one of the most challenging topics in physical science: force and motion.

Using probes as diagnostic tools that identify and analyze students ' preconceptions, teachers can easily move students from where they are in their current thinking to where they need to be to achieve scientific understanding.

Uncovering Student Ideas in Science, Volume 4, offers 25 more formative assessment probes to help reveal students' preconceptions of fundamental concepts in science.

Author Page Keeley continues to provide KOC012 teachers with her highly usable and popular formula for uncovering and addressing the preconceptions that students bring to the classroomOCothe formative assessment probeOCoIn this first book devoted exclusively to life science in her Uncovering Student Ideas in Science series. Keeley addresses the topics of life and its diversity; structure and function; life processes and needs of living things; ecosystems and change; reproduction, life cycles, and heredity; and human biology."

This is a must-have book if you're going to tackle the challenging concepts of force and motion in your classroom. --

Winner of the Distinguished Achievement Award from Association of Educational Publishers! Author Page Keeley continues to provide K–12 teachers with her highly usable and popular formula for uncovering and addressing the preconceptions that students bring to the classroom—the formative assessment probe—in this first book devoted exclusively to life science in her Uncovering Student Ideas in Science series. In this volume, Keeley addresses the topics of life and its diversity; structure and function; life processes and needs of living things; ecosystems and change; reproduction, life cycles, and heredity; and human biology. Using the probes as diagnostic tools that identify and analyze students ' preconceptions, teachers can easily move students from where they are in their current thinking to where they need to be to achieve scientific understanding. At the same time, use of the probes deepens the teacher ' s understanding of the subject matter, suggests instructional implications, and expands assessment literacy. Using the student-learning data gained through the probes to inform teaching and learning is what makes the probes formative. Each probe is supported by extensive Teacher Notes, which provide background information on the purpose of the probes, related concepts, explanations of the life science ideas being taught, related ideas in the national science standards, research on typical student misconceptions in life science, and suggestions for instruction and assessment.

What do your students know or think they know about what causes night and day, whether the Moon orbits the Earth, and why the Sun keeps glowing? Find out with this book on astronomy, the latest in NSTA's popular Uncovering Student Ideas in Science series. The 45 astronomy probes provide situations that will pique your students interest while helping you evaluate their understanding (or misunderstanding) of how the universe operates. The book is organised into four broad sections: the Earth and gravity; the Earth, Sun, and Moon system; the solar system and gravity in space; and stars, galaxies, and the universe. As the authors note, it s not always easy to help students untangle mistaken ideas. Using this powerful set of tools to identify students preconceptions is an excellent first step to helping your students achieve scientific understanding.

The popular features from Volume 1 are all here. The field-tested probes are short, easy to administer, and ready to reproduce. Teacher materials explain science content and suggest grade-appropriate ways to present information. But Volume 2 covers more life science and Earth and space science probes. Volume 2 also suggests ways to embed the probes throughout your instruction, not just when starting a unit or topic.

This book offers 32 engaging questions, or probes, that can reveal what your students already know--or think they know--about core Earth and environmental science concepts. Armed with those insights, you can use the probes' teacher notes to adjust your approach and present the science in grade-appropriate ways so students will learn the content accurately.

"25 new formative assessment probes for grades K-2. What ideas do young children bring to their science learning, and how does their thinking change as the engage in "science talk?" Find out using the 25 field-tested probes in the newest volume of Page Keeley's best selling "Uncovering Student Ideas in Science Series," the first targeted to grades K-2." cover verso.

Formative assessment informs the design of learning opportunities that take students from their existing ideas of science to the scientific ideas and practices that support conceptual understanding. Science Formative Assessment shows K-12 educators how to weave formative assessment into daily instruction. Discover 75 assessment techniques linked to the Next Generation Science Standards and give classroom practices a boost with: Descriptions of how each technique promotes learning Charts linking core concepts at each grade level to scientific practices Implementation guidance, such as required materials and student grouping Modifications for different learning styles Ideas for adapting techniques to other content areas

