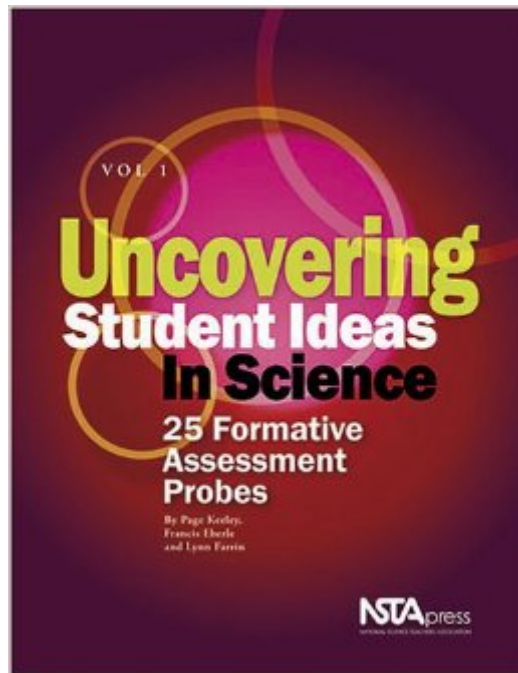


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# Uncovering Student Ideas In Science, Vol. 1: 25 Formative Assessment Probes



## Synopsis

This book is loaded with classroom-friendly tools 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 reveal your students' thinking on 44 core science topics, grouped by light, sound, matter, gravity, heat and temperature, life science, and Earth and space science.

## Book Information

Age Range: 8 and up

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Average Customer Review: 4.6 out of 5 starsÂ Â See all reviewsÂ (14 customer reviews)

Best Sellers Rank: #65,330 in Books (See Top 100 in Books) #79 inÂ Books > Science & Math > Science for Kids #86 inÂ Books > Education & Teaching > Schools & Teaching > Instruction Methods > Science & Technology #332 inÂ Books > Science & Math > History & Philosophy

## Customer Reviews

I highly recommend this book! I am in the process of writing a grant proposal to get a copy of this book as well as the second edition for each of the science teachers at our school. I haven't seen the book, but I have used the assessment probes as part of a Montana State University mentoring program. The assessment probes are MAGIC. I used them in classes ranging from Physical Science (which is taken primarily by students who are not college-bound) to Honors Physics, and the students got so much out of the exercise. One young woman, who was a marginal student before the probe "What is Matter?", "won" a discussion with the smartest boy in the class about whether air is matter, and her performance took off after that! I highly recommend this book.

This book is an excellent resource for formative assessments. There are formative assessments for all branches of science, Earth and Space, life science, and physical science. The formative assessments are varied. There are lists where students have to check the items that belong (or don't belong), there are phrases they have to agree with or disagree with, and there are

"conversations" among students where they have to decide who has the most correct answer. The biggest part that gives the most information is that the students' have to tell why they believe that is the correct answer. This provides so much information into how students think and it really gives you a way to understand a student's level. In the answers, there is a list of what is expected for elementary students, middle school students. and high school students. That makes this very adaptable to all levels. I use all of the series constantly in my classroom.

I really like the author,s approach to learning through probes. Clearly identifies students misconceptions and clears the way for learning. Encourages classroom discussions as well. I only wish there was one book covering Earth Science only, however it is not enough to take a star away. The book is a great resource and will purchase the others as well.

A must have for all science teachers! It really is a great book that has ideas that I use as bell ringers.

This is a great tool for me to use to help with my students! It gives me one more way to see if they already have a grasp on the basics so I do not waste their time. Easy to follow and adjusted for multiple grades

In this volume I found many useful insights, as well as examples, fro creating investigative and assessment probes to assist me in preparing lesson plans that work and help me with my decisions on how to differentiate my instruction to best meat the needs of my students. This book is more worth much more than the small investment.

I like the material in the book and have immediately begun using the probes in my classroom. So far the assessment are simple and easy for students to response and for me to me get useful information about student thinking. This was a new tool I was really looking forward to trying for the first time. So far, so good!

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