



Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes

By Page Keeley, Francis Eberle, Chad Dorsey

[Download now](#)

[Read Online](#) 

Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes By Page Keeley, Francis Eberle, Chad Dorsey

Since publication of Volume 1 of this series, thousands of teachers have been using these innovative classroom tools to improve student learning in science. Following in the footsteps of the first two volumes, this new book provides short, easy-to-administer probes that help teachers determine what misconceptions students bring to the classroom about the nature of science and about physical, life, Earth, and space sciences. This volume is an invaluable resource for classroom teachers, preservice teachers, professional developers, and college science and preservice faculty.

 [Download Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes](#)

 [Read Online Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes](#)

Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes

By Page Keeley, Francis Eberle, Chad Dorsey

Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes By Page Keeley, Francis Eberle, Chad Dorsey

Since publication of Volume 1 of this series, thousands of teachers have been using these innovative classroom tools to improve student learning in science. Following in the footsteps of the first two volumes, this new book provides short, easy-to-administer probes that help teachers determine what misconceptions students bring to the classroom about the nature of science and about physical, life, Earth, and space sciences. This volume is an invaluable resource for classroom teachers, preservice teachers, professional developers, and college science and preservice faculty.

Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes By Page Keeley, Francis Eberle, Chad Dorsey **Bibliography**

- Sales Rank: #78097 in Books
- Brand: Corwin
- Published on: 2008-04-01
- Original language: English
- Number of items: 1
- Dimensions: 10.70" h x .60" w x 8.30" l, 1.10 pounds
- Binding: Paperback
- 198 pages



[Download Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes](#)



[Read Online Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes](#)

Download and Read Free Online Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes By Page Keeley, Francis Eberle, Chad Dorsey

Editorial Review

Review

This book is a great book to have in your science library. It is a necessity for any Science Teacher K-12. The probes are assessment tools that every teacher can use to ask questions varying in degree. These probes can provoke lively discussion, encourage argumentation in small groups, and also support students in thinking on their own. All 25 sections in this book are presented in a clear and concise way. It is easy to read and provides teachers with ideas of how to vary their instructional strategies. --Reviewed by: Christina Ramsey on June 23, 2009

Use in a hands-on workshop. I used the series Uncovering Student Ideas in Science in two of my workshops on lecture-free teaching. These sessions were for high school and middle school science teachers. In one instance, the teachers (with whom I had worked previously) picked one of the formative assessments, tried it in their classrooms before the scheduled workshop date, and reported to the rest of the group about how it worked. In the second instance, I brought the books to the workshop and gave the teachers about 30 minutes to find an assessment appropriate for one of their classes, make copies for the other participants, and try the assessment on the workshop participants. In both cases each presentation was followed by critique and suggestions from other workshop participants. --Reviewed by: Bonnie Wood (Presque Isle, ME) on July 24, 2008

Third Book in the Series Doesn't Disappoint. Our NSTA president, Page Keeley, and colleagues have again provided an excellent source for helping determine student conceptualizations and understanding of various science topics. This is the third book in the series, and having used the prior two I find this one of similar quality. Uncovering Student Ideas books are filled with short science scenarios that have students make an educated guess in answering a question regarding a phenomenon. Then, and this is the extremely important part, students must provide in writing their reason for choosing their answer. An example of a classic activity will help illustrate the book's structure. On page 57 is the student handout (which may also be projected to save paper) asking students to guess the fewest number of wires a person would need to make a light bulb light, given the bulb and a battery. Students can pick 1, 2, 3, or 4 pieces of wire. Then they are asked to Explain your thinking about how to light the bulb. Draw a picture to support your explanation. I use these books with my STEM graduate students who teach in elementary classrooms as visiting scientists as well as their partner teachers. It is often hard to remember what you didn't know and misconceptions you might have held as a young student. The multitude of examples in the books provide my university students with a unique look into how their elementary students might look at a concept completely differently than they would ever expect. The graduate students use the scenarios as pre- and post-assessment activities in their classrooms. While most of them don't need the follow-up science concept background information provided, their classroom teaching partners find that information valuable. Even some of the graduate student scientists have found some of the scenarios to be challenging and many workshop discussions have been generated through the use of the activities. Whether used for pre-assessment, formative assessment, or summative assessment, the information you will get from using the activities in these books will inform your teaching and enlighten you to what has been learned and what still needs further clarification. --Reviewed by: Paul Allan (Moscow, ID) on July 22, 2008

About the Author

Page Keeley is senior science program director, Francis Eberle is executive director, and Chad Dorsey is a science specialist at the Maine Mathematics and Science Alliance, where they develop, coordinate, and

implement science education initiatives at the state and national levels. Combined, they have more than 35 years of teaching experience in middle and high school science. Page Keeley is 2008-2009 President of the National Science Teachers Association.

Users Review

From reader reviews:

Ernie Swisher:

Book is usually written, printed, or illustrated for everything. You can learn everything you want by a reserve. Book has a different type. As you may know that book is important matter to bring us around the world. Adjacent to that you can your reading expertise was fluently. A publication Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes will make you to possibly be smarter. You can feel a lot more confidence if you can know about anything. But some of you think that will open or reading the book make you bored. It is not make you fun. Why they are often thought like that? Have you trying to find best book or suitable book with you?

John Valdez:

The feeling that you get from Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes is a more deep you rooting the information that hide within the words the more you get interested in reading it. It does not mean that this book is hard to understand but Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes giving you joy feeling of reading. The copy writer conveys their point in specific way that can be understood through anyone who read that because the author of this e-book is well-known enough. This particular book also makes your vocabulary increase well. So it is easy to understand then can go with you, both in printed or e-book style are available. We suggest you for having this Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes instantly.

Perla Baxter:

Hey guys, do you wishes to finds a new book you just read? May be the book with the name Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes suitable to you? The actual book was written by well known writer in this era. Typically the book untitled Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes is the main of several books which everyone read now. That book was inspired many people in the world. When you read this book you will enter the new dimension that you ever know previous to. The author explained their thought in the simple way, thus all of people can easily to comprehend the core of this publication. This book will give you a great deal of information about this world now. To help you to see the represented of the world in this particular book.

Syble Mills:

Often the book Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes will bring that you the new experience of reading a book. The author style to elucidate the idea is very

unique. In case you try to find new book you just read, this book very acceptable to you. The book Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes is much recommended to you to study. You can also get the e-book in the official web site, so you can quickly to read the book.

Download and Read Online Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes By Page Keeley, Francis Eberle, Chad Dorsey #G2SQJCZ06AI

Read Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes By Page Keeley, Francis Eberle, Chad Dorsey for online ebook

Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes By Page Keeley, Francis Eberle, Chad Dorsey Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes By Page Keeley, Francis Eberle, Chad Dorsey books to read online.

Online Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes By Page Keeley, Francis Eberle, Chad Dorsey ebook PDF download

Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes By Page Keeley, Francis Eberle, Chad Dorsey Doc

Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes By Page Keeley, Francis Eberle, Chad Dorsey MobiPocket

Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes By Page Keeley, Francis Eberle, Chad Dorsey EPub

G2SQJCZ06AI: Uncovering Student Ideas in Science, Volume 3: Another 25 Formative Assessment Probes By Page Keeley, Francis Eberle, Chad Dorsey