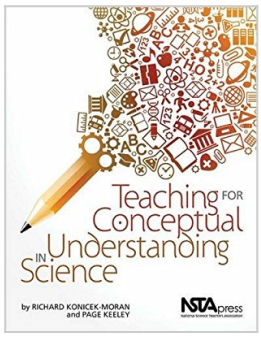

Teaching for Conceptual Understanding in Science (PB359X)

By Richard Konicek-Moran, Page D. Keeley

Download now

Read Online

Teaching for Conceptual Understanding in Science (PB359X) By Richard Konicek-Moran, Page D. Keeley

What do you get when you bring together two of NSTA s bestselling authors to ponder ways to deepen students conceptual understanding of science? A fascinating combination of deep thinking about science teaching, field-tested strategies you can use in your classroom immediately, and personal vignettes all educators can relate to and apply themselves. "Teaching for Conceptual Understanding in Science" is by Richard Konicek-Moran, a researcher and professor who wrote the "Everyday Science Mysteries" series, and Page Keeley, a practitioner and teacher educator who writes the "Uncovering Student Ideas in Science" series. Written in an appealing, conversational style, this new book explores where science education has been and where it's going; emphasizes how knowing the history and nature of science can help you engage in teaching for conceptual understanding and conceptual change; stresses the importance of formative assessment as a pathway to conceptual change; and provides a bridge between research and practice. This is the kind of thought-provoking book that can truly change the way you teach. Whether you read each chapter in sequence or start by browsing the topics in the vignettes, Konicek-Moran and Keeley will make you think really think about the major goal of science education in the 21st century: to help students understand science at the conceptual level so they can see its connections to other fields, other concepts, and their own lives.

Download Teaching for Conceptual Understanding in Science (...pdf

Read Online Teaching for Conceptual Understanding in Science ...pdf

Teaching for Conceptual Understanding in Science (PB359X)

By Richard Konicek-Moran, Page D. Keeley

Teaching for Conceptual Understanding in Science (PB359X) By Richard Konicek-Moran, Page D. Keeley

What do you get when you bring together two of NSTA s bestselling authors to ponder ways to deepen students conceptual understanding of science? A fascinating combination of deep thinking about science teaching, field-tested strategies you can use in your classroom immediately, and personal vignettes all educators can relate to and apply themselves. "Teaching for Conceptual Understanding in Science" is by Richard Konicek-Moran, a researcher and professor who wrote the "Everyday Science Mysteries" series, and Page Keeley, a practitioner and teacher educator who writes the "Uncovering Student Ideas in Science" series. Written in an appealing, conversational style, this new book explores where science education has been and where it's going; emphasizes how knowing the history and nature of science can help you engage in teaching for conceptual understanding and conceptual change; stresses the importance of formative assessment as a pathway to conceptual change; and provides a bridge between research and practice. This is the kind of thought-provoking book that can truly change the way you teach. Whether you read each chapter in sequence or start by browsing the topics in the vignettes, Konicek-Moran and Keeley will make you think really think about the major goal of science education in the 21st century: to help students understand science at the conceptual level so they can see its connections to other fields, other concepts, and their own lives.

Teaching for Conceptual Understanding in Science (PB359X) By Richard Konicek-Moran, Page D. Keeley Bibliography

- Sales Rank: #506093 in Books
- Published on: 2015-03-01
- Original language: English
- Number of items: 1
- Dimensions: 11.00" h x 8.50" w x .50" l,
- Binding: Paperback
- 264 pages

Download Teaching for Conceptual Understanding in Science (...pdf

Read Online Teaching for Conceptual Understanding in Science ...pdf

Download and Read Free Online Teaching for Conceptual Understanding in Science (PB359X) By Richard Konicek-Moran, Page D. Keeley

Editorial Review

Review
This terrific new NSTA book provides science educators with a valuable tool for connecting the research on insuring that students understand important scientific concepts for their own practice. The authors know their audience and have created a resource that will help teachers better implement the NGSS in their classes and thus prepare their students for the future. --NSTA Recommends

About the Author
Page Keeley is an author, speaker, and consultant who works with school districts and STEM organizations throughout the U.S. and internationally in the areas of formative assessment and teaching for conceptual change. She was the Senior Science Program Director at the Maine Mathematics and Science Alliance (MMSA) for 16 years, directing projects and developing resources in the areas of leadership, professional development, linking standards and research on learning, formative assessment, and mentoring and coaching. She has been the Principal Investigator and Project Director of three National Science Foundation funded projects, including the Northern New England Co-Mentoring Network; PRISMS: Phenomena and Representations for Instruction of Science in Middle School; and Curriculum Topic Study: A Systematic Approach to Utilizing National Standards and Cognitive Research. In addition to NSF funded projects, she has directed state Math-Science Partnership (MSP) projects, including TIES K 12: Teachers Integrating Engineering into Science K 12, and a National Semi-Conductor Foundation grant, Linking Science, Inquiry, and Language Literacy (L-SILL). Keeley also founded and directed the Maine Governor s Academy for Science and Mathematics Education Leadership, a replication of the National Academy for Science Education Leadership, of which she is a fellow.

Keeley is the author of eighteen books and numerous journal articles and book chapters. Keeley taught high school science for 2 years and middle school mathematics and science for 12 years before leaving the classroom in 1996. At that time she was an active teacher leader at the state and national level. She served two terms as president of the Maine Science Teachers Association and was the District II National Science Teachers Association (NSTA) director. She received the Presidential Award for Excellence in Secondary Science Teaching in 1992, the Milken National Distinguished Educator Award in 1993, was named the AT&T Maine Governor s Fellow in 1994.

As a nationally known professional developer and speaker, she received the National Staff Development Council s (now Learning Forward) Susan Loucks-Horsley Award for Leadership in Science and Mathematics Professional Development in 2009, and the National Science Education Leadership Association s Outstanding Leadership in Science Education Award in 2013. She has been a science education delegation leader for the People to People Citizen Ambassador Professional Programs, leading the South Africa trip in 2009, the China trip in 2010, the India trip in 2012, the Cuba trip in 2014, and the Peru trip in 2015.

Prior to teaching, Keeley was a research assistant in immunogenetics at the Jackson Laboratory of Mammalian Genetics in Bar Harbor, Maine. She received her B.S. in Life Sciences from the University of New Hampshire and her Masters in Science Education from the University of Maine. In 2008, Keeley was elected the sixty-third president of the National Science Teachers Association (NSTA).

Users Review

From reader reviews:

John Hickman:

This Teaching for Conceptual Understanding in Science (PB359X) book is simply not ordinary book, you have after that it the world is in your hands. The benefit you have by reading this book is usually information inside this publication incredible fresh, you will get info which is getting deeper you read a lot of information you will get. That Teaching for Conceptual Understanding in Science (PB359X) without we comprehend teach the one who reading it become critical in pondering and analyzing. Don't always be worry Teaching for Conceptual Understanding in Science (PB359X) can bring if you are and not make your tote space or bookshelves' turn out to be full because you can have it with your lovely laptop even telephone. This Teaching for Conceptual Understanding in Science (PB359X) having great arrangement in word and also layout, so you will not experience uninterested in reading.

Herbert Willams:

Reading a reserve can be one of a lot of task that everyone in the world really likes. Do you like reading book thus. There are a lot of reasons why people enjoyed. First reading a guide will give you a lot of new facts. When you read a guide you will get new information because book is one of a number of ways to share the information or maybe their idea. Second, reading through a book will make you actually more imaginative. When you examining a book especially fiction book the author will bring someone to imagine the story how the people do it anything. Third, you are able to share your knowledge to other people. When you read this Teaching for Conceptual Understanding in Science (PB359X), you may tells your family, friends and also soon about yours guide. Your knowledge can inspire average, make them reading a reserve.

Jennifer Gallant:

The e-book with title Teaching for Conceptual Understanding in Science (PB359X) posesses a lot of information that you can discover it. You can get a lot of help after read this book. This particular book exist new knowledge the information that exist in this publication represented the condition of the world currently. That is important to yo7u to learn how the improvement of the world. That book will bring you throughout new era of the the positive effect. You can read the e-book on the smart phone, so you can read the item anywhere you want.

Warren Bowers:

Reading a reserve make you to get more knowledge as a result. You can take knowledge and information from the book. Book is created or printed or highlighted from each source in which filled update of news. In this particular modern era like right now, many ways to get information are available for an individual. From media social just like newspaper, magazines, science reserve, encyclopedia, reference book, story and comic. You can add your knowledge by that book. Do you want to spend your spare time to spread out your book? Or just searching for the Teaching for Conceptual Understanding in Science (PB359X) when you necessary it?

Download and Read Online Teaching for Conceptual Understanding in Science (PB359X) By Richard Konicek-Moran, Page D. Keeley #8BAUZNO67P5

Read Teaching for Conceptual Understanding in Science (PB359X) By Richard Konicek-Moran, Page D. Keeley for online ebook

Teaching for Conceptual Understanding in Science (PB359X) By Richard Konicek-Moran, Page D. Keeley 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 Teaching for Conceptual Understanding in Science (PB359X) By Richard Konicek-Moran, Page D. Keeley books to read online.

Online Teaching for Conceptual Understanding in Science (PB359X) By Richard Konicek-Moran, Page D. Keeley ebook PDF download

Teaching for Conceptual Understanding in Science (PB359X) By Richard Konicek-Moran, Page D. Keeley Doc

Teaching for Conceptual Understanding in Science (PB359X) By Richard Konicek-Moran, Page D. Keeley Mobipocket

Teaching for Conceptual Understanding in Science (PB359X) By Richard Konicek-Moran, Page D. Keeley EPub

8BAUZNO67P5: Teaching for Conceptual Understanding in Science (PB359X) By Richard Konicek-Moran, Page D. Keeley