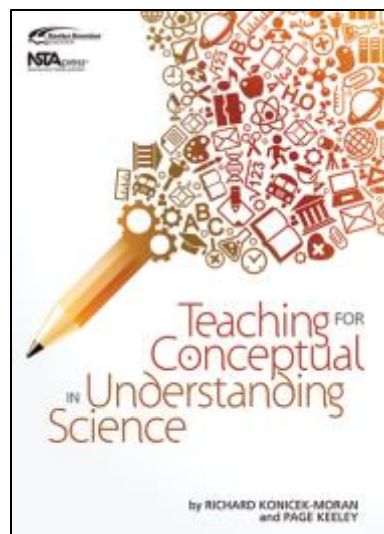


Teaching for Conceptual Understanding in Science

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Summary

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 to themselves.

Teaching for Conceptual Understanding in Science is a collaboration between 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
- emphasises 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
- provides a bridge between research and practice.

This thought-provoking book can truly change the way you teach. Whether you read each chapter in sequence or preview topics covered by 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.

Other Resources

- *Everyday Life Science Mysteries: Stories for Inquiry-Based Science Teaching* (NST0867)
- *Everyday Physical Science Mysteries: Stories for Inquiry-Based Science Teaching* (NST0874)
- *Everyday Earth and Space Science Mysteries: Stories for Inquiry-Based Science Teaching* (NST0850)
- *Uncovering Student Ideas in Astronomy: 45 New Formative Assessment Probes* (NST0997)
- *Uncovering Student Ideas in Physical Science, Volume 1: 45 New Force and Motion Assessments Probes* (NST1130)
- *Uncovering Student Ideas in Life Science, Volume 1: 25 New Formative Assessment Probes* (NST1123)