

Professional Resources for Science Educators

NSTA PRESS CATALOG

Spring/Summer 2014

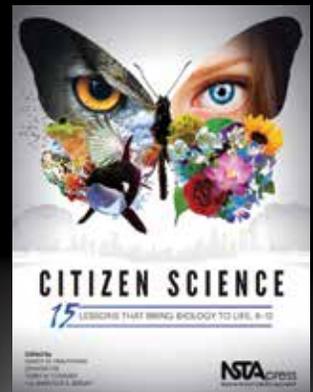
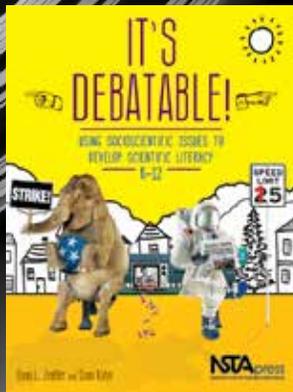
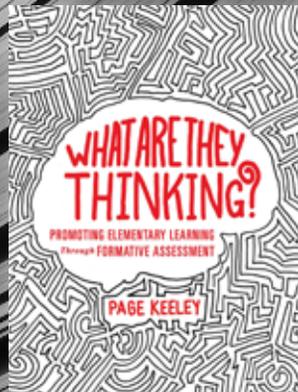
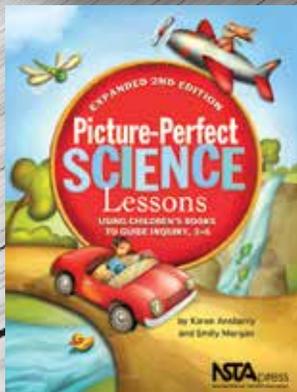
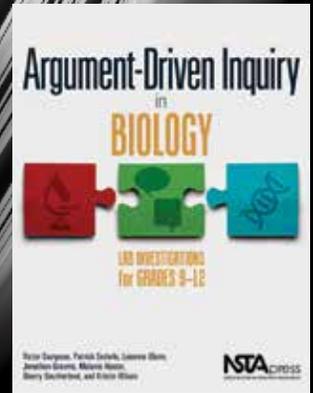
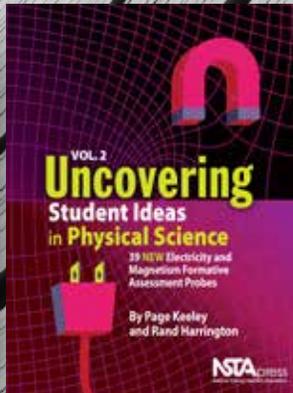
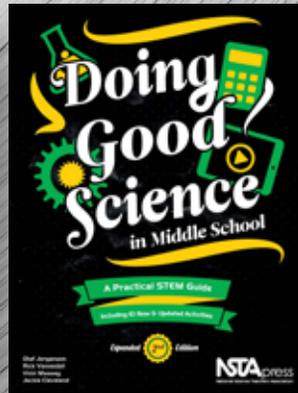
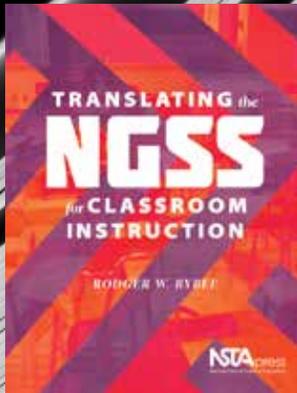
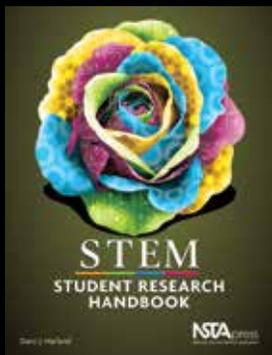
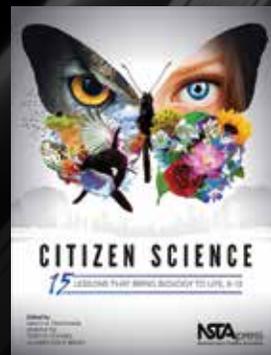


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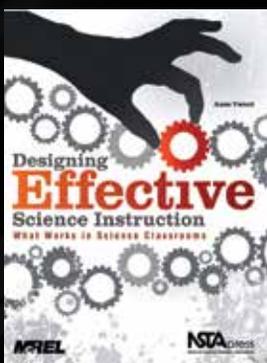


“As the world of science teaching moves into a focus on creating tangible project-based learning opportunities for students, this text guides the STUDENT (as well as the teacher) through a STEM-based approach for learning that incorporates research, inquiry, and technology.”
—Sarah Reeves Young, author of *Gourmet Lab* and *The New Science Teacher’s Handbook*

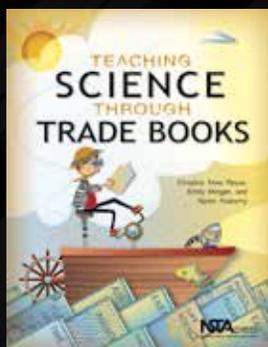
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“The material provides current, authentic, real-life educational opportunities valuable for student learners and citizens. The inquiry-based teaching strategies are also in alignment with current recognized teaching practices for encouraging understanding of science.”
—Peer review

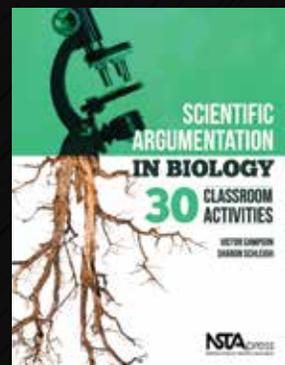
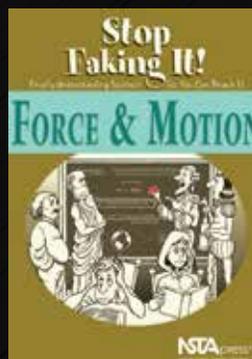


“This book makes you sit down and think about what the point of your lesson is and guides you through the process of critiquing your own lessons. It provides good information on creating inquiry-based lessons or reformatting existing lessons to involve inquiry to a greater degree.”
—Methods student



“For very young children, it is sometimes difficult to gain and sustain attention for scientific topics. For older students, the transitions across subjects (e.g., from reading to science to math) can also be difficult. Here, Royce, Morgan, and Ansberry offer a creative solution to these challenges stimulating science questions with children’s trade books.”
—*Science Books & Film/AAAS*

“For the first time in my life, I think I get it! Robertson’s explanations address all of my (what some people may believe are) silly questions respectfully—as if I am the one who is logical for questioning and not grasping it! He explains the rationale behind the concepts in a humorous (sometimes laugh out loud) way, and I walked away wishing I could take a stab at that college physics class once more.”
—Reader review

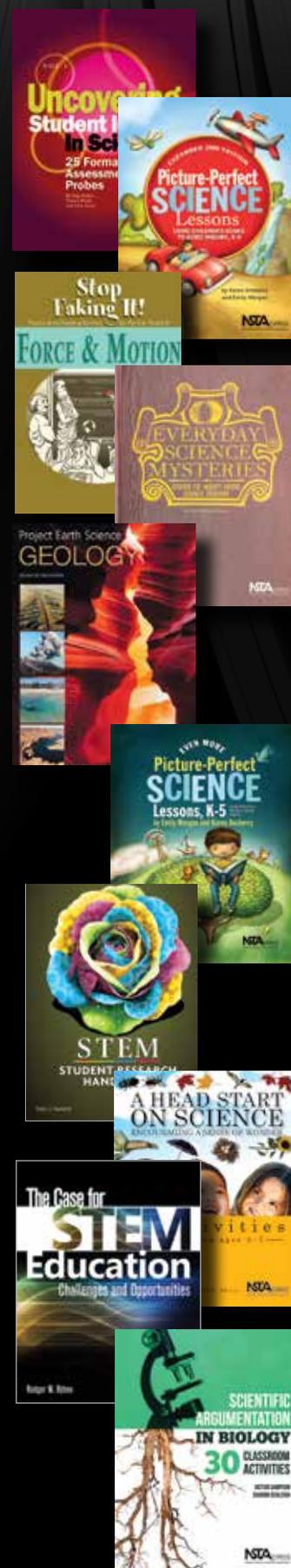


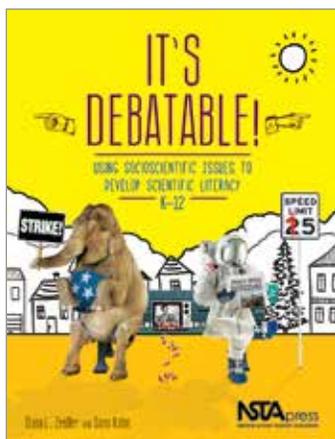
“I think this book will be helpful as science teachers transition to the content literacy requirements of the Common Core, as well as the new requirements of the *Next Generation Science Standards*.”
—Reader review

Bestsellers at a Glance

Bestselling Series	Page #
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It's Debatable!

Using Socioscientific Issues to Develop Scientific Literacy and Citizenship, K–12

Dana L. Zeidler and Sami Kahn

NSTA PRESS, GRADES K–12

Should schools charge a “tax” to discourage kids from eating unhealthy food? Should local governments lower speed limits to reduce traffic fatalities? Should pharmaceutical companies be allowed to advertise prescription drugs directly to consumers? These are the kinds of real-world questions K–12 students can explore using the Socioscientific Issues Framework at the core of *It's Debatable!* Both practical and content-rich, this book doesn't shy away from controversy. Instead, it encourages scientific literacy by giving students practice in research, analysis, and argumentation and by confronting just how messy the questions raised by science (and pseudoscience) can be.

© 2014; ISBN: 978-1-938946-00-4; 304 pages

Stock #: PB347X

Members: \$30.36

Non-members: \$37.95



Argument-Driven Inquiry in Biology

Lab Investigations for Grades 9–12

Victor Sampson, Patrick Enderle, Leeanne Gleim, Jonathon Grooms, Melanie Hester, Sherry Southerland, and Kristin Wilson

NSTA PRESS, GRADES 9–12

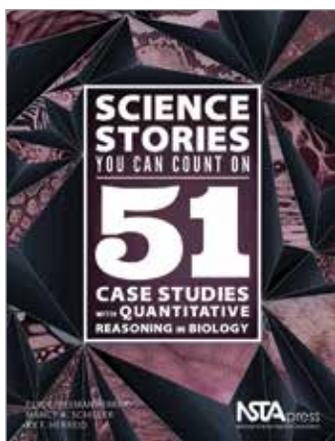
This book is a unique source of inquiry-based biology labs that help high school students learn both important content and scientific practices. *Argument-Driven Inquiry in Biology* is a one-stop source for both information and instructional materials. The book starts by introducing the stages of argument-driven inquiry. These stages range from question identification, data analysis, and argument development to double-blind peer review and report revision. Then, it provides 27 field-tested labs that cover molecules and organisms, ecosystems, heredity, and biological evolution.

© 2014; ISBN: 978-1-938946-20-2; 456 pages

Stock #: PB349X1

Members: \$34.36

Non-members: \$42.95



Science Stories You Can Count On

51 Case Studies With Quantitative Reasoning in Biology

Clyde Freeman Herreid, Nancy A. Schiller, and Ky F. Herreid

NSTA PRESS, COLLEGE

How do we know whether energy drinks really boost energy, cell phones cause cancer, or Super Bugs are going to render antibiotics ineffective? *Science Stories You Can Count On* weaves real-life questions like these into 51 case studies. The case studies are designed to engage students in 12 areas of general biology, from the scientific method to microbiology to plant forms and functions. But that's not all: The cases also promote data literacy by making graphical analysis and statistical and logical reasoning important parts of each story.

© 2014; ISBN: 978-1-938946-05-9; 550 pages

Stock #: PB353X

Members: \$34.36

Non-members: \$42.95

Using Physical Science Gadgets and Gizmos, Grades 6–8 Using Physics Gadgets and Gizmos, Grades 9–12

Phenomenon-Based Learning

Matthew Bobrowsky, Mikko Korhonen, and Jukka Kohtamäki

NSTA PRESS, GRADES 6–12

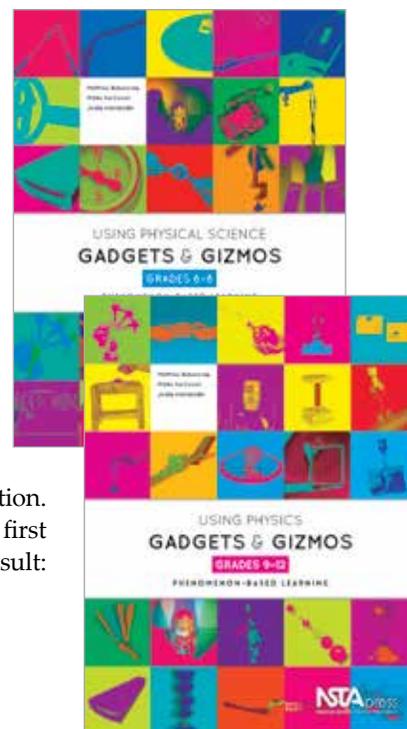
With 54 experiments for high school and 35 for middle school, *Using Physics Gadgets and Gizmos, Grades 9–12* and *Using Physical Science Gadgets and Gizmos, Grades 6–8* feature water rockets, Drinking Birds, Dropper Poppers, Boomwhackers, a Flying Pig, and more. Published in two grade-appropriate editions, the experiments let middle school or high school students explore a variety of phenomena involving pressure and force, thermodynamics, energy, light and color, resonance, buoyancy, two-dimensional motion, angular momentum, magnetism, and electromagnetic induction. Instead of putting the theory before the application, these books encourage students to first experience *how* gadgets work and then grow curious enough to find out *why*. The result: Students learn physics by doing what real scientists do.

© 2014; ISBN: 978-1-936959-37-2; 120 pages (Grades 6–8)

Stock #: PB345X2 Members: \$24.76 Non-members: \$30.95

© 2014; ISBN: 978-1-936959-36-5; 169 pages (Grades 9–12)

Stock #: PB345X1 Members: \$26.36 Non-members: \$32.95



Uncovering Student Ideas in Physical Science, Volume 2

39 New Electricity and Magnetism Formative Assessment Probes

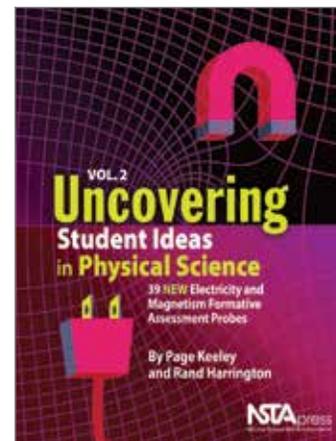
Page Keeley and Rand Harrington

NSTA PRESS, GRADES K–12

Uncovering Student Ideas in Physical Science, Volume 2, offers 39 new formative assessment probes, this time with a focus on electric charge, electric current, and magnets and electromagnetism. Just like the previous eight books in the *Uncovering* series, this volume provides engaging questions that can reveal what students already know—or think they know—about a core science concept. Armed with that insight, educators can use the probes' teacher materials to present the science content in grade-appropriate ways that will help students develop robust conceptual understanding.

© 2014; ISBN: 978-1-936137-37-4; 190 pages

Stock #: PB274X2 Members: \$30.36 Non-members: \$37.95



What Are They Thinking?

Promoting Elementary Learning Through Formative Assessment

Page Keeley

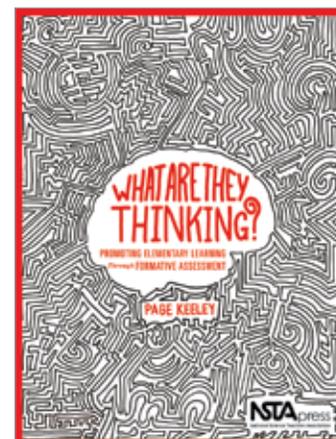
An **NSTA PRESS** Journals Collection, **GRADES PREK–5**

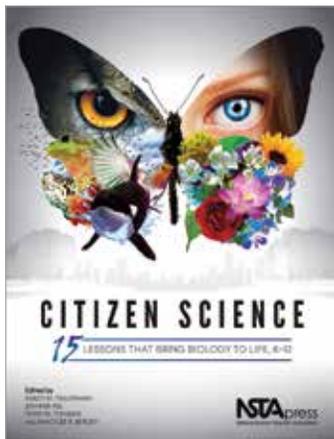
This book draws out what young students know—or think they know—about science. *What Are They Thinking?* is a compendium of 30 “Formative Assessment Probes” columns from NSTA’s elementary journal *Science and Children*. Each column provides a sample probe—a set of interesting questions that root out commonly held (and often mistaken) ideas. Your students’ answers will help you take a step back and figure out how to guide them from where they are conceptually to where they need to be.

A bonus feature: For each column, Page Keeley, award-winning author of NSTA’s best-selling *Uncovering Student Ideas in Science* series, has added a set of study group questions written especially for this compendium.

© 2014; ISBN: 978-1-938946-25-7; 228 pages

Stock #: PB348X Members: \$30.36 Non-members: \$37.95





Citizen Science

15 Lessons That Bring Biology to Life, 6–12

Nancy M. Trautmann, Jennifer Fee, Terry M. Tomasek, and NancyLee Bergey, Editors

NSTA PRESS, GRADES 6–12

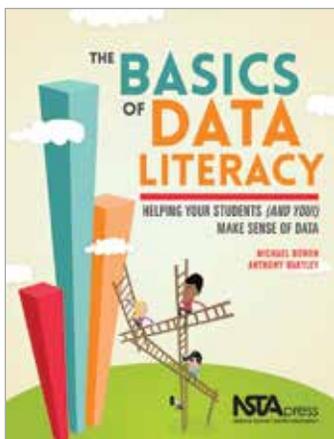
Help students build meaningful connections through public collaboration in scientific research—also known as citizen science. This inspiring book gives you real-life case studies of classes that engaged in citizen science and learned authentic scientific practices and the habits of mind associated with scientific reasoning.

© 2013; ISBN: 978-1-936959-08-2; 224 pages

Stock #: PB344X

Members: \$23.96

Non-members: \$29.95



The Basics of Data Literacy

Helping Your Students (and You!) Make Sense of Data

G. Michael Bowen and Anthony Bartley

NSTA PRESS, GRADES 6–12

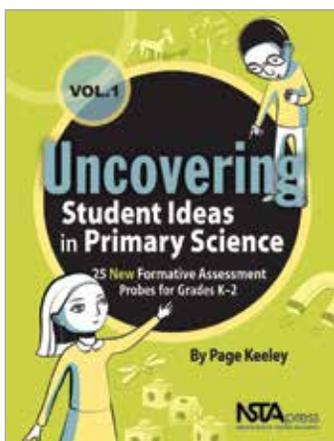
Here's the ideal book for teachers with no statistics background. Written in an informal style with easy-to-grasp examples, *The Basics of Data Literacy* teaches how to help students understand, collect, summarize, and analyze statistics inside and outside the classroom. The book's 10 chapters provide an introduction to types of variables and data, ways to structure and interpret data tables, simple statistics, and survey basics.

© 2013; ISBN: 978-1-938946-03-5; 171 pages

Stock #: PB343X

Members: \$23.96

Non-members: \$29.95



Uncovering Student Ideas in Primary Science, Volume 1

25 New Formative Assessment Probes for Grades K–2

Page Keeley

NSTA PRESS, GRADES K–2

What ideas do children bring to their science learning, and how does their thinking change as they engage in “science talk”? Find out using the field-tested probes in the newest volume of Page Keeley’s bestselling *Uncovering Student Ideas in Science* series—the first targeted toward grades K–2. The probes in this teacher-friendly book use minimal (and simple) text and visual representations of familiar objects, phenomena, or ideas. Student responses incorporate drawing and speaking over writing.

© 2013; ISBN: 978-1-936959-51-8; 123 pages

Stock #: PB335X1

Members: \$23.96

Non-members: \$29.95

See pages 22–23 for more books by this bestselling author.
Also see page 3 for her newest titles.

The New Science Teacher's Handbook

What You Didn't Learn From Student Teaching

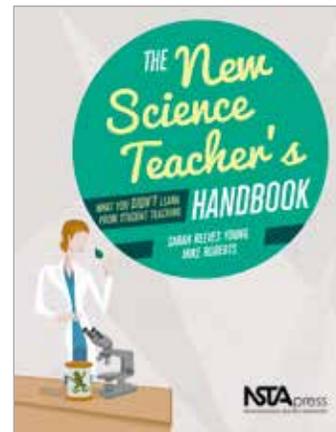
Sarah Reeves Young and Mike Roberts

NSTA PRESS, GRADES K-12

This book covers the day-to-day stumbling blocks that college-based methods classes don't, including organizing the jungle of science materials typically left by a predecessor, making grading manageable, and coping with cranky parents. Readers get a story of a struggle from the authors' own classroom experience, the moral of the story, steps for success to overcome the struggle, what success looks like when these steps are followed, and resources for further reading.

© 2013; ISBN: 978-1-936959-49-5; 163 pages

Stock #: PB342X Members: \$25.56 Non-members: \$31.95



Exemplary College Science Teaching

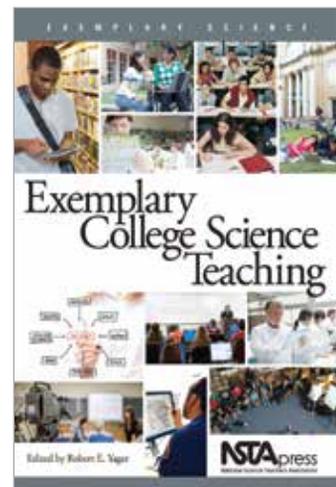
Robert E. Yager, Editor

NSTA PRESS, COLLEGE

Educators can update college teaching methods to work with new standards and new times with this idea-filled book from renowned science educator Robert Yager. The latest volume from the *Exemplary Science* series offers 16 examples of methods and frameworks that build on what college students learned in high school and encourage them to take an active role in their own learning.

© 2013; ISBN: 978-1-938946-09-7; 243 pages

Stock #: PB192X9 Members: \$23.96 Non-members: \$29.95



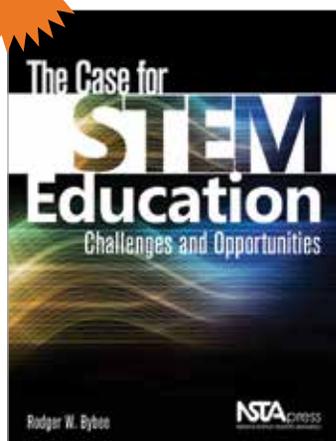
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The Case for STEM Education

Challenges and Opportunities

Rodger W. Bybee

NSTA PRESS, GRADES K–12

This book helps educators understand and implement STEM action plans. The book starts by outlining the challenges facing STEM education, contrasting contemporary STEM with earlier reforms. The author explores appropriate roles for the federal government as well as for states, districts, and individual schools. Finally, the book offers several ideas for developing action plans for implementing STEM instruction. *The Case for STEM Education* is a must-read for leaders at all levels: national and regional policy makers, educators responsible for STEM initiatives, college and university faculty who educate STEM teachers, administrators who make decisions about school programs, and teachers who represent STEM disciplines.

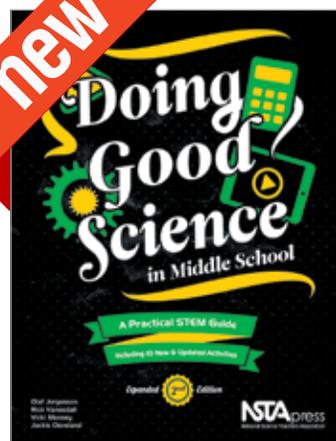
© 2013; ISBN: 978-1-936959-25-9; 116 pages

Stock #: PB337X

Members: \$22.36

Non-members: \$27.95

new



Doing Good Science in Middle School, Expanded 2nd Edition

A Practical STEM Guide

Olaf Jorgenson, Rick Vanosdall, Vicki Massey, and Jackie Cleveland

NSTA PRESS, GRADES 6–8

Doing Good Science is a comprehensive, easy-to-use, must-have resource. As the subtitle says, the emphasis is on *practical*. The book covers big-picture concepts like understanding the middle school learner and exploring the nature of science. It provides 10 new and updated sample activities to develop engaging, active lessons that integrate STEM instruction with the *Next Generation Science Standards (NGSS)* and *Common Core State Standards*. The authors give specific guidance on classroom management, safety, and how to use collaborative table groups and science lab notebooks.

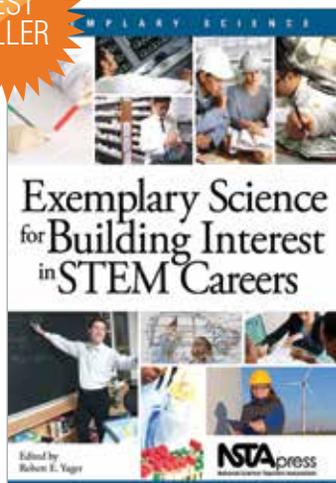
Although it's been thoroughly revised to address teacher feedback and changing times, the new *Doing Good Science in Middle School* shares the same goal as the popular first edition: to prove that good science is still compatible with noisy, bustling, and always insatiably curious middle school students.

© 2014; ISBN: 978-1-938946-07-3; 245 pages

Stock #: PB183E2

Members: \$29.56

Nonmembers: \$36.95

BEST
SELLER

Exemplary Science for Building Interest in STEM Careers

Robert E. Yager, Editor

NSTA PRESS, GRADES K–COLLEGE

This book provides examples and inspiration to spark students' interests in careers in science, technology, engineering, and mathematics. Some chapters showcase career-awareness programs.

© 2012; ISBN: 978-1-936959-35-8; 290 pages

Stock #: PB192X8

Members: \$23.96

Non-members: \$29.95

Everyday Engineering

Putting the E in STEM Teaching and Learning

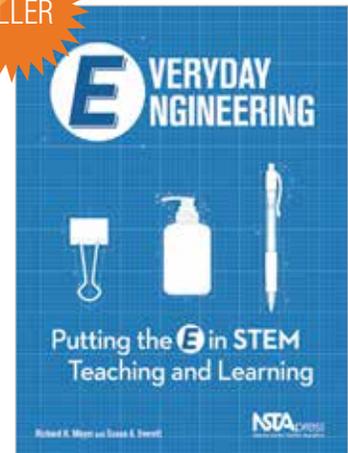
Richard H. Moyer and Susan A. Everett

An **NSTA PRESS** Journals Collection, **GRADES 6–8**

What makes a Bic click? Why do squirt guns squirt? Using this compilation of columns from NSTA's award-winning journal *Science Scope*, middle-schoolers engage in hands-on investigations of the engineering behind everyday objects. Each of the 14 activities includes a clear explanation of the science and history behind an item's development, a materials list, student data sheets, and safety suggestions.

© 2012; ISBN: 978-1-936137-19-0; 118 pages

Stock #: PB306X Members: \$15.96 Non-members: \$19.95



STEM Student Research Handbook

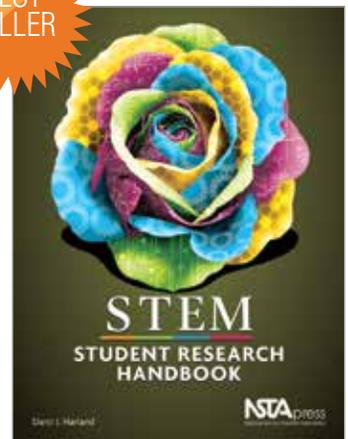
Darci J. Harland

NSTA PRESS, **GRADES 9–12**

This valuable handbook for high school science teachers and their students outlines the various stages of large-scale science research projects. To help coach students through their projects, 12 chapters cover all aspects of development—generating ideas, creating research design, writing proposals, conducting experiments, interpreting data, and presenting results.

© 2011; ISBN: 978-1-936137-24-4; 218 pages

Stock #: PB297X Members: \$23.96 Non-members: \$29.95



*Science Books & Films/AAAS
Best of 2012!*

Integrating Engineering and Science in Your Classroom

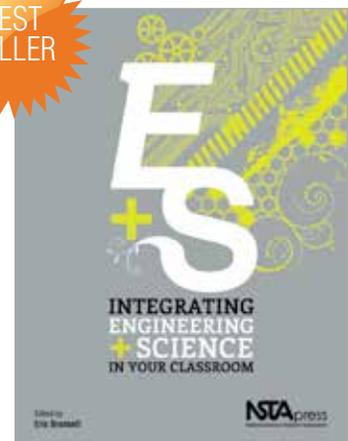
Eric Brunzell, Editor

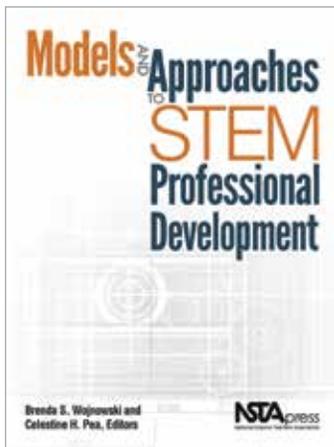
An **NSTA PRESS** Journals Collection, **GRADES K–12**

What do light sabers, potatoes, prosthetic arms, and eggs racing at breakneck speeds have in common? All are included in the design challenges outlined in this book, which will reinforce important skills and science content while illustrating a wide range of STEM skills and opportunities.

© 2012; ISBN: 978-1-936959-41-9; 219 pages

Stock #: PB332X Members: \$23.96 Non-members: \$29.95





Models and Approaches to STEM Professional Development

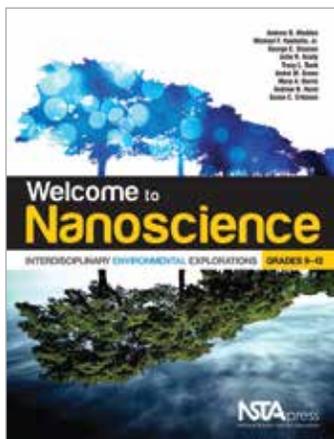
Brenda S. Wojnowski and Celestine H. Pea, Editors

NSTA PRESS, GRADES K–12

The arrival of the *Next Generation Science Standards* makes this the perfect time to kick-start any teacher's professional development program, and this ambitious book is the perfect source of inspiration to help do so. Its emphasis is on developing highly effective teachers who are expected to improve student achievement in STEM education; its focus is on research-based models underlying systemic reform efforts.

© 2013; ISBN: 978-1-936137-35-0; 222 pages

Stock #: PB322X Members: \$27.96 Non-members: \$34.95



Welcome to Nanoscience

Interdisciplinary Environmental Explorations, Grades 9–12

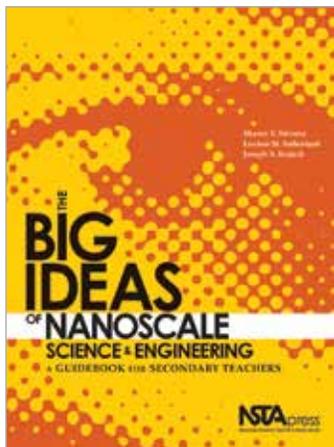
Andrew S. Madden, Michael F. Hochella Jr., George E. Glasson, Julie R. Grady, Tracy L. Bank, André M. Green, Mary A. Norris, Andrew N. Hurst, and Susan C. Eriksson

NSTA PRESS, GRADES 9–12

Created for high school biology, chemistry, and Earth and environmental science teachers, this unique text introduces the revolutionary field of nanoscience through the framework of groundwater pollution. The authors answer key questions (e.g., What is nanoscience and technology?) and provide five classroom-tested, inquiry-based investigations.

© 2011; ISBN: 978-1-936137-32-9; 171 pages

Stock #: PB296X Members: \$20.76 Non-members: \$25.95



The Big Ideas of Nanoscale Science and Engineering

A Guidebook for Secondary Teachers

Shawn Y. Stevens, LeeAnn M. Sutherland, and Joseph S. Krajcik

NSTA PRESS, GRADES 7–12

Middle and high school science teachers can use these nine “big ideas” to help students understand fundamental science concepts across disciplines: (1) size and scale; (2) structure of matter; (3) forces and interactions; (4) quantum effects; (5) size-dependent properties; (6) self-assembly; (7) tools and instrumentation; (8) models and simulations; and (9) science, technology, and society.

© 2009; ISBN: 978-1-935155-07-2; 203 pages

Stock #: PB241X Members: \$15.96 Non-members: \$19.95

Science by Design

Construct a ... Boat, Catapult, Glove, and Greenhouse

TERC and **NSTA PRESS, GRADES 9–12**

Ready for a new generation of high school students who love to learn by doing, the much-loved activities in the *Science By Design* series promote hands-on experience with intriguing engineering concepts. The widely used activities have been revised and repackaged in one up-to-date volume that's perfect for inspiring interest in STEM. They encourage meaningful explorations of concepts such as buoyancy and friction (through boats); torsion and elasticity (catapults); heat transfer and insulation (gloves); and plant biology, thermodynamics, and energy transfer (greenhouses).

© 2013; ISBN: 978-1-936959-48-8; 378 pages

Stock #: PB331X Members: \$30.36 Non-members: \$37.95



Nanoscale Science

Activities for Grades 6–12

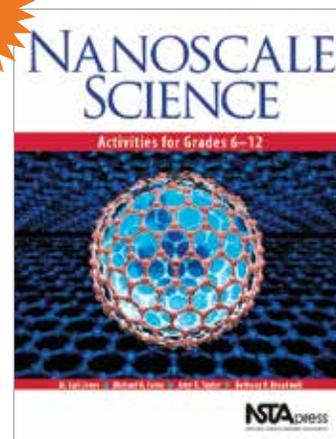
M. Gail Jones, Michael R. Falvo, Amy R. Taylor, and Bethany P. Broadwell

NSTA PRESS, GRADES 6–12

Helps middle and high school students understand the big implications of tiny technology. Using guided inquiry with open-ended exploration, *Nanoscale Science's* 20 investigations teach students about the unique properties and behavior of materials at the nanoscale—one-billionth the size of a meter. The activities are organized around five themes: scale, tools and techniques, unique properties and behaviors, nanotechnology applications, and societal implications.

© 2007; ISBN: 978-1-933531-05-2; 155 pages

Stock #: PB210X Members: \$15.96 Non-members: \$19.95



Extreme Science

From Nano to Galactic

M. Gail Jones, Amy R. Taylor, and Michael R. Falvo

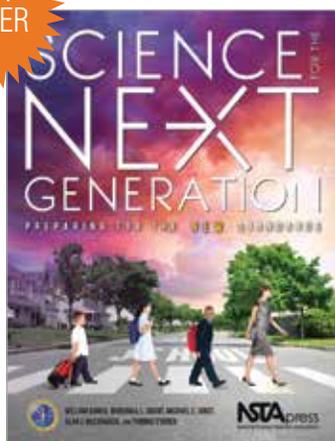
NSTA PRESS, GRADES 6–12

From microbes to mammoths, dinosaurs to diatoms, molecules to stars, the very large and the very small fascinate students. This book capitalizes on that interest to help middle and high school biology, Earth science, chemistry, physics, and mathematics students develop quantitative evaluation with *Extreme Science*.

© 2009; ISBN: 978-1-933531-30-4; 356 pages

Stock #: PB237X Members: \$19.96 Non-members: \$24.95





Science for the Next Generation

Preparing for the New Standards

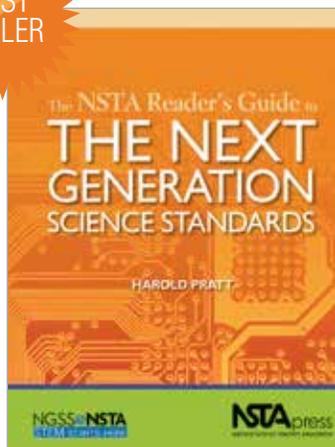
William Banko, Marshall L. Grant, Michael E. Jabot, Alan J. McCormack, and Thomas O'Brien, Editors

NSTA PRESS, GRADES K–5

This multifaceted book will help elementary educators get ready for a new generation of students, the *Framework for K–12 Science Education*, and the *Next Generation Science Standards* (NGSS). Written by experts in science and education as well as experienced teachers, *Science for the Next Generation* offers essential background, content, and practices for implementing the new standards.

© 2013; ISBN: 978-1-936959-26-6; 390 pages

Stock #: PB336X Members: \$27.96 Non-members: \$34.95



The NSTA Reader's Guide to the Next Generation Science Standards

Harold Pratt

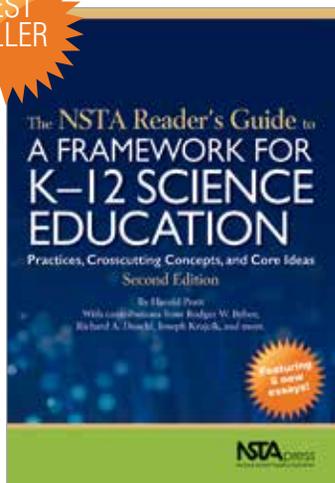
NSTA PRESS, GRADES K–12

The NGSS aim to better prepare U.S. students for the rigor of career and college-level scientific study by stressing the importance and integration of three dimensions: science and engineering practices, crosscutting concepts, and disciplinary core ideas.

This brief and easy-to-use *Reader's Guide* offers teachers, principals, district and state administrators—anyone with a vested interest in improving the quality of science education—the tools they need to fully absorb the new standards and begin to implement them, effectively, into classroom practices.

© 2013; ISBN: 978-1-938946-06-6; 42 pages

Stock #: PB340X Members: \$10.36 Non-members: \$12.95



The NSTA Reader's Guide to A Framework for K–12 Science Education, Second Edition

Practices, Crosscutting Concepts, and Core Ideas

Harold Pratt, with Rodger W. Bybee, Richard Duschl, Joe Krajcik, and more

NSTA PRESS, GRADES K–COLLEGE

This handy *Reader's Guide* unpacks the three key dimensions of *A Framework for K–12 Science Education*—scientific and engineering practices, crosscutting concepts, and core ideas in each specific discipline—allowing teachers, administrators, curriculum developers, university professors, and others to more easily grasp how the *Next Generation Science Standards* differ from the old standards.

This new edition also includes 10 essays by key leaders in science education, each explaining the *Framework* further.

© 2013; ISBN: 978-1-938946-19-6; 160 pages

Stock #: PB326E2 Members: \$13.56 Non-members: \$16.95

Introducing Teachers and Administrators to the NGSS

A Professional Development Facilitator's Guide

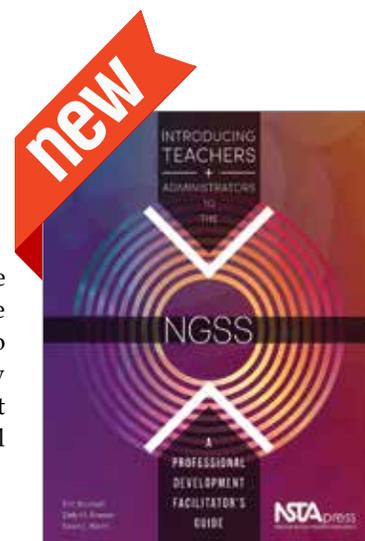
Eric Brunsell, Deb M. Kneser, and Kevin J. Niemi

NSTA PRESS, GRADES K-12

Teachers and administrators often feel overwhelmed by putting new standards into practice while coping with other changes in education. This rich professional development resource will help educators head off "initiative fatigue." At the book's core are 24 activities to introduce educators to the NGSS terms, structure, and conceptual shifts; explore the new practices and crosscutting concepts; help teachers work within the standards to support students challenged by traditional science teaching; develop science roadmaps, essential questions, and assessments; and much more.

© 2014; ISBN: 978-1-938946-18-9; 248 pages

Stock #: PB350X Members: \$29.56 Non-members: \$36.95



Translating the NGSS for Classroom Instruction

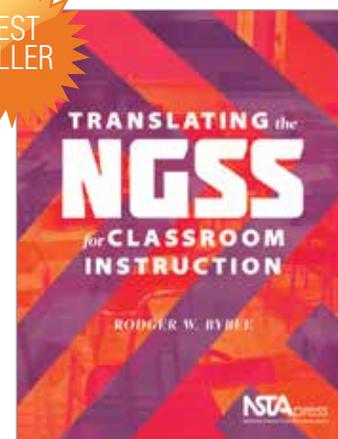
Rodger W. Bybee

NSTA PRESS, GRADES K-12

Translating the NGSS for Classroom Instruction provides essential guidance to everyone from teachers to school administrators to district and state science coordinators. Practical and timely, this book includes an introduction to NGSS; examples of the standards translated to classroom instruction at the elementary, middle, and high school levels; and background, directions, and activities to help adapt current units of instruction to align with the standards.

© 2013; ISBN: 978-1-938946-01-1; 194 pages

Stock #: PB341X Members: \$26.36 Non-members: \$32.95



EVERYDAY SCIENCE MYSTERIES

STORIES FOR INQUIRY-BASED SCIENCE TEACHING

Richard Konicek-Moran

NSTA PRESS, GRADES K-8



Everybody loves a mystery—and thousands of teachers love how the *Everyday Science Mysteries* series gets students engaged in real experimentation about science content. Author Richard Konicek-Moran uses each mystery to present opportunities for students to ask questions, form hypotheses, test ideas, and come up with explanations. Konicek-Moran engages students by grounding the stories in familiar experiences that provide a foundation for discussion. When asked how he comes up with his science mysteries, Dick says: “They are most often derived from my everyday experiences. Science is all around us, and as we go through our daily routines, it often eludes us because—as the old saying goes—‘The hidden we seek, the obvious we ignore.’”

This popular series is available in two different sets to fit teachers’ needs: The original four-volume series covers an array of topics in each book, while a three-volume set comprises topic-specific books for physical, life, or Earth and space science. Lessons include science concepts to explore, grade-appropriate strategies for using the stories, and explanations of how the lessons align with standards.

Each book Members: **\$20.76** Non-members: **\$25.95**

Yet More Everyday Science Mysteries

© 2011; ISBN: 978-1-936137-11-4; 198 pages

Stock #: PB220X4

Even More Everyday Science Mysteries

© 2010; ISBN: 978-1-935155-13-3; 186 pages

Stock #: PB220X3

More Everyday Science Mysteries

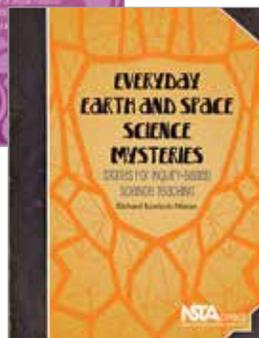
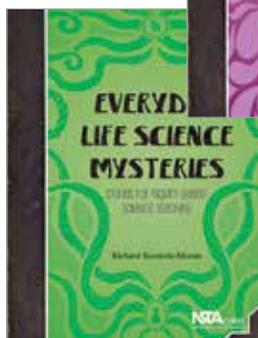
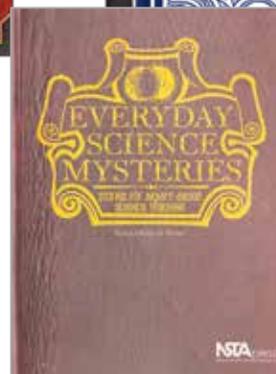
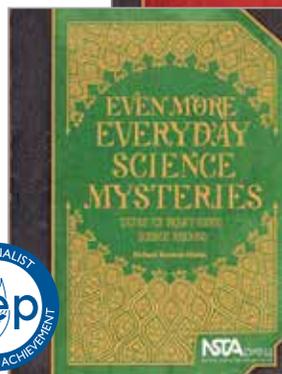
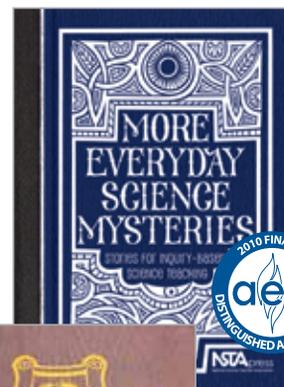
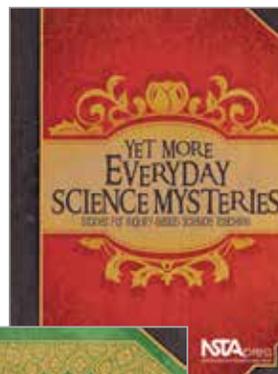
© 2009; ISBN: 978-1-933531-44-1; 207 pages

Stock #: PB220X2

Everyday Science Mysteries

© 2008; ISBN: 978-1-933531-21-2; 188 pages

Stock #: PB220X



Everyday Physical Science Mysteries

© 2013; ISBN: 978-1-936959-29-7; 261 pages

Stock #: PB333X1

Everyday Life Science Mysteries

© 2013; ISBN: 978-1-936959-30-3; 254 pages

Stock #: PB333X2

Everyday Earth and Space Science Mysteries

© 2013; ISBN: 978-1-936959-28-0; 232 pages

Stock #: PB333X3

You Want Me to Teach What?

Sure-Fire Methods for Teaching Physical Science and Math

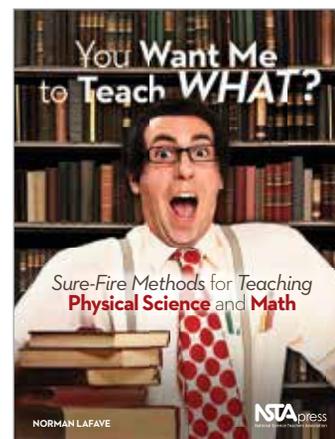
Norman LaFave

NSTA PRESS, GRADES 9–12

Teachers who feel shaky about being assigned to teach upper-level science and math should follow this concise book's tried-and-tested methods, which easily integrate into classroom and lesson plans starting from the very first day. *You Want Me to Teach What?* concentrates on general techniques for approaching a variety of problems and enhancing teaching skills in science and math. It covers student psychology, classroom management, planning, instruction, problem-solving techniques, laboratory methods and reporting, assessment, and professional development. Without feeling inundated, readers will find a wealth of sensible guidance.

© 2012; ISBN: 978-1-936959-01-3; 185 pages

Stock #: PB313X Members: \$19.96 Non-members: \$24.95



Rise and Shine

A Practical Guide for the Beginning Science Teacher

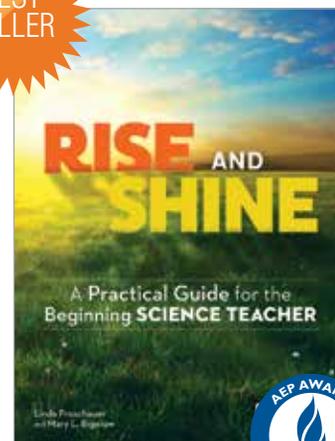
Linda Froschauer and Mary L. Bigelow

NSTA PRESS, GRADES K–12

Rise and Shine provides a friendly support system for new science teachers in their first days, months, and years in the classroom. The easy-to-read book offers plenty of widely applicable techniques for managing the classroom, maintaining discipline, and working with parents. It also covers important science-specific topics such as laboratory set-up, classroom safety, and initiating inquiry.

© 2012; ISBN: 978-1-936137-29-9; 188 pages

Stock #: PB308X Members: \$26.36 Non-members: \$32.95



Perspectives

Research and Tips to Support Science Education, K–6

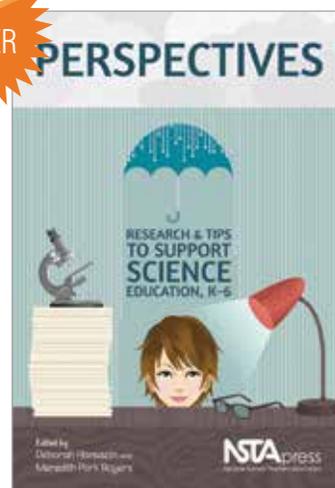
Deborah Hanuscin and Meredith Park Rogers, Editors

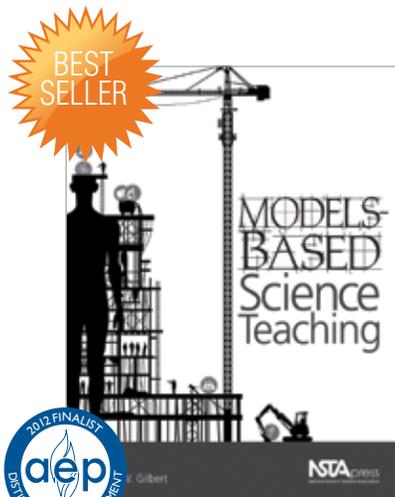
An **NSTA PRESS** Journals Collection, **GRADES K–6**

This book makes it easy and quick to grasp credible research-based techniques that will help develop more effective elementary science teachers. Each of the 27 columns starts with a classroom vignette highlighting a particular challenge—from using analogies to blending science with reading instruction. There is also a synthesis of key research findings and specific advice to use right away.

© 2013; ISBN: 978-1-936959-42-6; 129 pages

Stock #: PB334X Members: \$15.96 Non-members: \$19.95





Association Media &
Publishing 2012 Gold EXCEL
Award Winner!

Models-Based Science Teaching

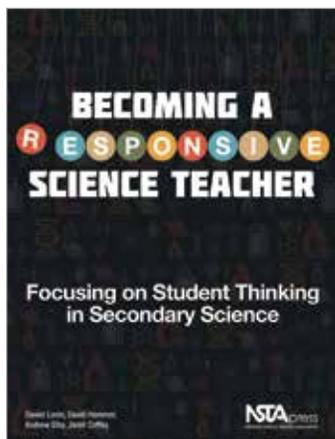
Steven W. Gilbert

NSTA PRESS, GRADES K-12

Methods professors, their students, and inservice teachers who are interested in expanding their thinking about the nature of science and how it can be better incorporated into school science instruction should read *Models-Based Science Teaching*. Author Steven Gilbert asserts that all learning involves the construction of mental models, defined as “simplified representations of what we think we know.” Gilbert’s comprehensive coverage of the topic begins with a philosophical context for modeling and continues with key chapters such as “Building Models in the Classroom.”

© 2011; ISBN: 978-1-936137-23-7; 204 pages

Stock #: PB299X Members: \$23.16 Non-members: \$28.95



Becoming a Responsive Science Teacher

Focusing on Student Thinking in Secondary Science

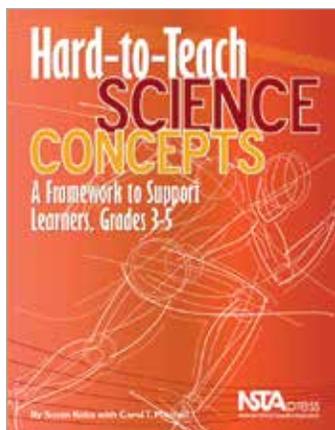
Daniel Levin, David Hammer, Andrew Elby, and Janet Coffey

NSTA PRESS, GRADES 9-12

This just may be the book that transforms even a veteran educator’s approach to classroom teaching. It shows how to shift from the traditional method—presenting material that the teacher hopes students will hear and retain—to what the authors call “responsive listening”—attuning teaching to the substance of students’ reactions to lessons and helping them learn how to learn science. To help make the shift, the book offers a philosophical framework illustrated by five real-life case studies (four of which are captured on videos available for free on the NSTA website).

© 2013; ISBN: 978-1-936959-05-1; 214 pages

Stock #: PB323X Members: \$23.96 Non-members: \$29.95



Hard-to-Teach Science Concepts

A Framework to Support Learners, Grades 3-5

Susan Koba and Carol T. Mitchell

NSTA PRESS, GRADES 3-5

Authors Susan Koba and Carol Mitchell introduce grades 3-5 teachers to their conceptual framework as a model for successful instruction of hard-to-teach science concepts. Four actions make up the methodology: (1) Engage students about their preconceptions and address and dispel misconceptions, (2) target lessons to be learned, (3) determine appropriate strategies, and (4) use standards-based teaching that builds on student understandings.

© 2011; ISBN: 978-1-936137-15-2; 256 pages

Stock #: PB238X2 Members: \$27.16 Non-members: \$33.95

Front-Page Science

Engaging Teens in Science Literacy

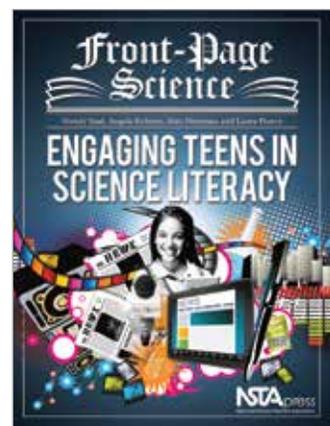
Wendy Saul, Angela Kohnen, Alan Newman, and Laura Pearce

NSTA PRESS, GRADES 9–12

What can students learn now that will help them make sense of their world 15 years after graduation? That's the question *Front-Page Science* helps teachers answer. With a learn-by-doing methodology borrowed from science journalists, the book offers an engaging way to launch a lifetime of science literacy.

© 2012; ISBN: 978-1-936137-14-5; 197 pages

Stock #: PB302X Members: \$20.76 Non-members: \$25.95



Science the “Write” Way

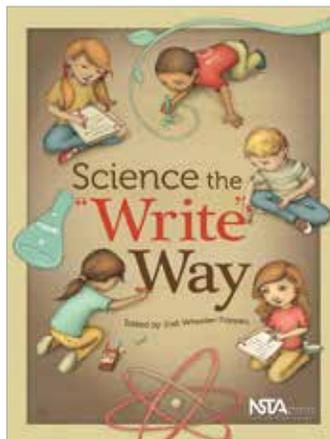
Jodi Wheeler-Toppen, Editor

An **NSTA PRESS** Journals Collection, **GRADES K–8**

Writing skills are high on the list of real-world requirements for students, including those who study science. Every scientific discipline needs professionals who can ably describe their proposed studies for funding considerations, track their observations and results in their own notes, provide written experimental protocols for their peers, and share their work in writing to others.

© 2011; ISBN: 978-1-936137-40-4; 291 pages

Stock #: PB311X Members: \$20.76 Non-members: \$25.95



Mastery Learning in the Science Classroom

Success for Every Student

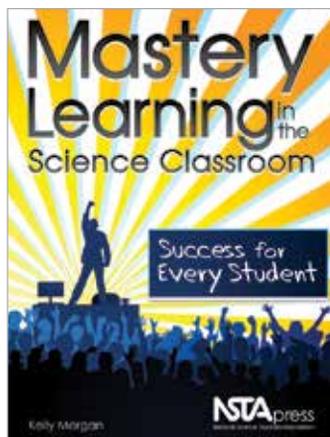
Kelly Morgan

NSTA PRESS, GRADES K–12

Using research-based student performance data, Kelly Morgan compiles impressive statistics to support her assertion that “mastery learning results in improved student learning and motivation.” Describing the challenges as well as the benefits, this volume provides a step-by-step guide for transitioning from the traditional classroom to a mastery classroom, as well as sample worksheets, checklists, a teacher grading grid, and additional resources.

© 2011; ISBN: 978-1-936137-09-1; 69 pages

Stock #: PB289X Members: \$11.96 Non-members: \$14.95



How to ... Write to Learn Science, 2nd Edition

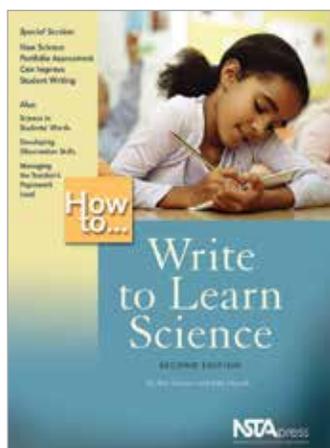
Bob Tierney, with John Dorroh

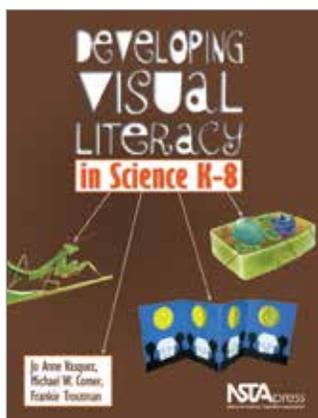
NSTA PRESS, GRADES 7–12

This book is full of classroom-tested, pragmatic approaches from high school science teachers that make teaching and learning more creative. Innovative write-to-learn strategies offer inspiring techniques to coax out the reluctant scientists in any classroom. A special section on science portfolio assessment is also included.

© 2004; ISBN: 978-0-87355-246-2; 35 pages

Stock #: PB191X1 Members: \$8.76 Non-members: \$10.95





Developing Visual Literacy in Science, K–8

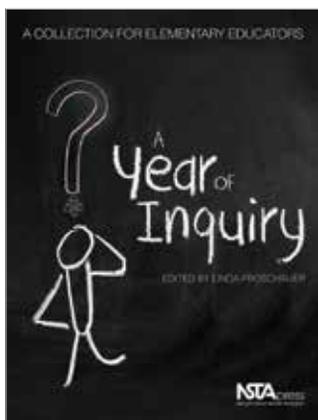
Jo Anne Vasquez, Michael W. Comer, and Frankie Troutman

NSTA PRESS, GRADES K–8

Educators who recognize the importance of helping students develop visual literacy in science—for example, interpreting photographs, charts, diagrams, figures, labels, and graphic symbols—will find this book a practical resource for building students' visual literacy skills and enhancing classroom instruction. Today's elementary textbooks rely heavily on visual representations to help demonstrate concepts, and literacy in this area is especially relevant for students who pursue STEM careers. Moreover, a growing body of research concludes that visual literacy is critical for all citizens to communicate in our highly complex world.

© 2010; ISBN: 978-1-935155-22-5; 138 pages

Stock #: PB279X Members: \$19.96 Non-members: \$24.95



A Year of Inquiry

A Collection for Elementary Educators

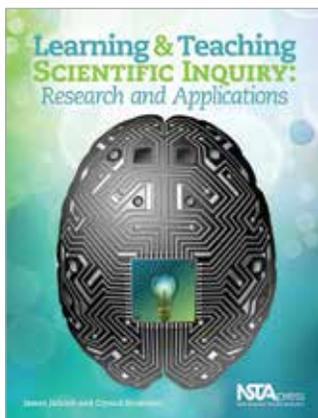
Linda Froschauer, Editor

An **NSTA PRESS** Journals Collection, **GRADES K–5**

To move students toward *doing* science and away from lectures, memorization, and cookbook labs, *Year of Inquiry* is the time-saving resource that teachers have been hoping for. Offering a year's worth of support, instruction, and learning through inquiry, this volume is an easy-to-read compendium of 36 articles from *Science and Children*, NSTA's award-winning elementary-level journal. The book covers such crucial topics as understanding what a scientist does, developing process skills, record keeping in science notebooks, structuring investigable questions, and collecting and analyzing data.

© 2013; ISBN: 978-1-936959-34-1; 211 pages

Stock #: PB327X Members: \$20.76 Non-members: \$25.95



Learning and Teaching Scientific Inquiry

Research and Applications

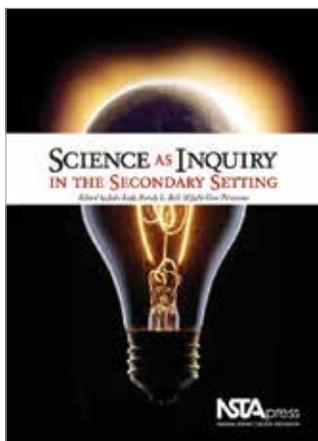
James Jadrich and Crystal Bruxvoort

NSTA PRESS, GRADES K–8

This definitive volume will embolden science teacher educators, curriculum specialists, professional development facilitators, and K–8 teachers to teach inquiry with greater confidence and deeper understanding. The authors assert that scientific inquiry is best taught using models in science rather than focusing on the activities of scientists. Additional emphasis is placed on cognitive science research, providing invaluable insight on how students learn and how instructors should teach.

© 2011; ISBN: 978-1-936137-22-0; 236 pages

Stock #: PB300X Members: \$23.96 Non-members: \$29.95



Science as Inquiry in the Secondary Setting

Julie A. Luft, Randy L. Bell, and Julie Gess-Newsome, Editors

NSTA PRESS, GRADES 6–12

Despite hearing so much about the importance of inquiry-based science education, many educators may not be exactly sure what it is—not to mention how to do it. But this engaging book takes the intimidation out of inquiry. *Science as Inquiry in the Secondary Setting* gives an overview of what inquiry can be like in middle and high school and explores how to incorporate more inquiry-centered practices into science teaching and learning.

© 2008; ISBN: 978-1-933531-26-7; 149 pages

Stock #: PB216X Members: \$19.96 Non-members: \$24.95

The Teaching of Science

21st-Century Perspectives

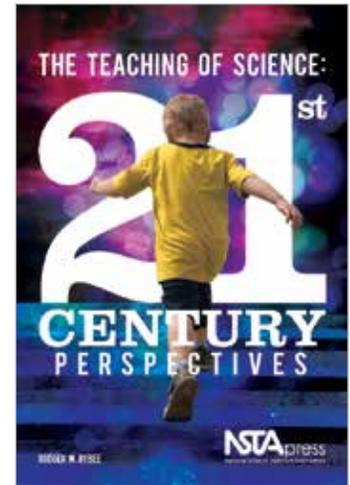
Rodger W. Bybee

NSTA PRESS, GRADES K–12

Renowned educator Rodger Bybee provides the perfect opportunity for science teachers, administrators, curriculum developers, and science teacher educators to reflect on the basic issues in science education today and in the coming years. He encourages readers to think about *why* they teach science and *what* is important to teach. Answering these questions, he says, enables readers to figure out *how* to teach science. He addresses topics such as the contemporary need for reform, curriculum and instruction, teaching science as inquiry, and developing 21st-century skills.

© 2010; ISBN: 978-1-936137-05-3; 202 pages

Stock #: PB283X Members: \$22.36 Non-members: \$27.95



Exemplary Science

Best Practices in Professional Development, Revised Second Edition

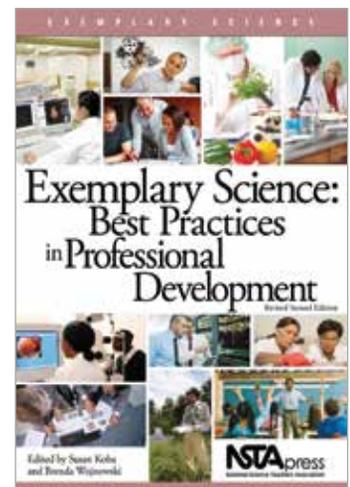
Susan Koba and Brenda Wojnowski, Editors

NSTA PRESS, GRADES K–COLLEGE

Make smarter use of precious professional development dollars with this essay collection. It's designed to spark new ideas while encouraging high-quality learning opportunities for teachers at all grade levels. The book's 14 real-life models are inspiring examples of how to train current or future teachers to carry out a constructivist, inquiry-based approach. End-of-chapter questions help teachers relate the material to their own situations.

© 2013; ISBN: 978-1-936959-07-5; 268 pages

Stock #: PB192X4E2 Members: \$23.96 Non-members: \$29.95



Science Stories

Using Case Studies to Teach Critical Thinking

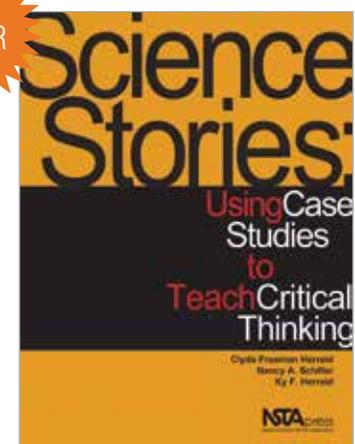
Clyde Freeman Herreid, Nancy A. Schiller, and Ky F. Herreid

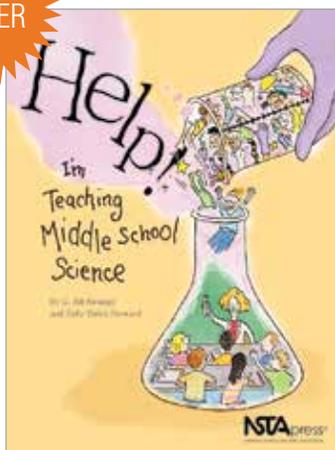
NSTA PRESS, COLLEGE

Authors Clyde Freeman Herreid, Nancy Schiller, and Ky Herreid have wisely surmised that stories put "flesh and bones" on scientific methods and provide an inside look at scientists in action. Better still, the stories or case studies lay the groundwork for understanding science and developing critical-thinking skills. These freshly drawn case studies—organized into categories of history, experimental design, unusual claims, science and society, the media, and ethics—are intended for use in college-level methods courses.

© 2012; ISBN: 978-1-936137-25-1; 394 pages

Stock #: PB301X Members: \$27.96 Non-members: \$34.95





Help! I'm Teaching Middle School Science

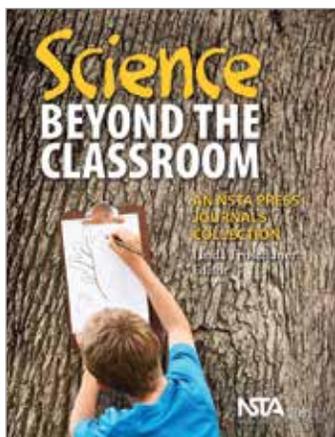
C. Jill Swango and Sally Boles Steward

NSTA PRESS, GRADES 6-8

Like a personal survival guide, this nontechnical manual offers how-to advice that teachers can use to teach the way middle schoolers learn best. Topics cover what to do on the first day of school, preparing safe and effective lab lessons, managing the classroom, and working with in-school teams as well as parents.

© 2003; ISBN: 978-0-87355-225-7; 133 pages

Stock #: PB170X Members: \$15.96 Non-members: \$19.95



Science Beyond the Classroom

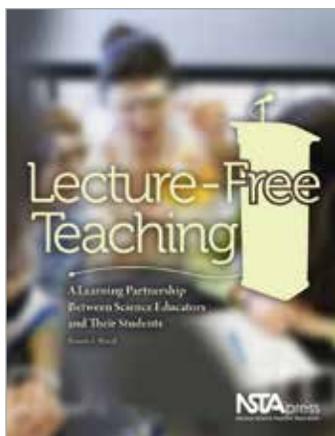
Linda Froschauer, Editor

An **NSTA PRESS** Journals Collection, **GRADES K-8**

Science Beyond the Classroom provides an overview of information and ideas (many of which include step-by-step, teacher-tested instructions and guidelines) that can be easily modified and adapted by teachers and others—club sponsors, parents, and child-care workers among them—who want to nurture enthusiasm for science.

© 2008; ISBN: 978-1-933531-37-3; 178 pages

Stock #: PB223X Members: \$7.96 Non-members: \$9.95



Lecture-Free Teaching

A Learning Partnership Between Science Educators and Their Students

Bonnie S. Wood

NSTA PRESS, COLLEGE

College professors who rely on teaching by routine lecturing may want to consider building “learning partnerships” as a new method for reaching students. This book outlines the implementation and benefits, such as dispelling students’ preconceptions, of such partnerships.

© 2009; ISBN: 978-1-933531-32-8; 259 pages

Stock #: PB246X Members: \$26.36 Non-members: \$32.95

Readings in Science Methods, K–8

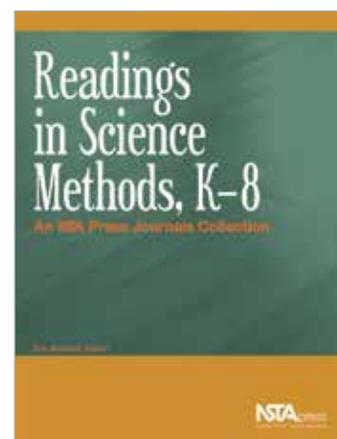
Eric Brunsell, Editor

An **NSTA PRESS** Journals Collection, **GRADES K–8**

For those teaching an introductory science education course in a college or university, *Readings in Science Methods, K–8*, with its blend of theory, research, and best practices, can serve as the only text, a primary text, or a supplementary text. For preservice teachers, the book offers insights into how to teach science most effectively. For practicing teachers, this book refreshes what is already known—and could lead to new and fruitful approaches. For administrators, this is the perfect professional development reference tool to use with teaching staff members.

© 2008; ISBN: 978-1-933531-38-0; 470 pages

Stock #: PB222X Members: \$19.96 Non-members: \$24.95



Professional Learning Communities for Science Teaching

Lessons From Research and Practice

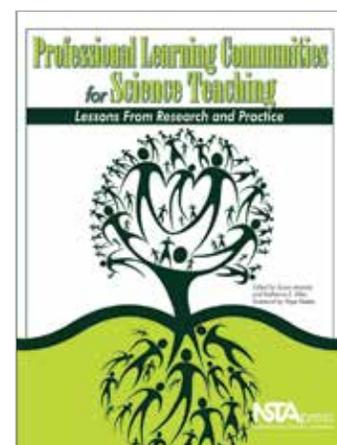
Susan Mundry and Katherine E. Stiles, Editors

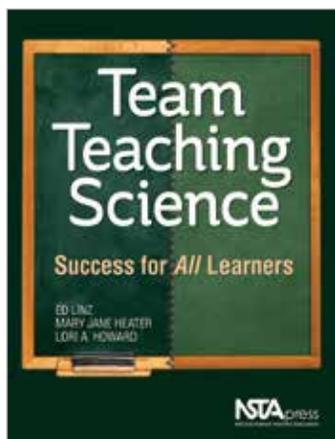
NSTA PRESS, GRADES K–COLLEGE

Teachers and school administrators who are interested in forming professional learning communities will find these seven successful approaches to developing PLCs inspiring. In a PLC environment, teachers receive continuous professional development, therefore improving their teaching skills to the benefit of student learning. Each chapter ends with reflection questions that expand on the themes discussed and encourage teachers to relate their learning to the chapter's specific focus.

© 2009; ISBN: 978-1-935155-00-3; 161 pages

Stock #: PB239X Members: \$19.96 Non-members: \$24.95





Team Teaching Science

Success for All Learners

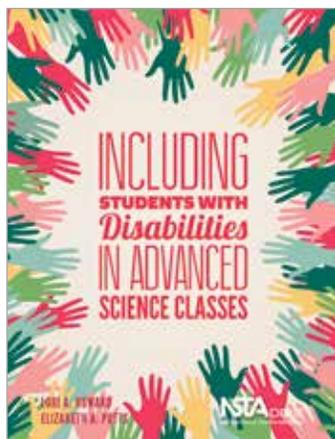
Ed Linz, Mary Jane Heater, and Lori A. Howard

NSTA PRESS, GRADES K-12

The authors of *Team Teaching Science* find truth in the old adage “Two heads really are better than one.” This guide for developing successful team teaching partnerships that maximize student learning is aimed at preservice and inservice special education teachers, K-12 science teachers, and methods professors in science education programs who want to address special needs issues. Background information on science teaching and team teaching and six chapters on how to team teach specific topics make up the heart of this book. Highlighted are the basic elements of collaboration and co-teaching strategies, as well as lots of practical advice.

© 2011; ISBN: 978-1-936137-10-7; 162 pages

Stock #: PB294X Members: \$20.76 Non-members: \$25.95



Including Students With Disabilities in Advanced Science Classes

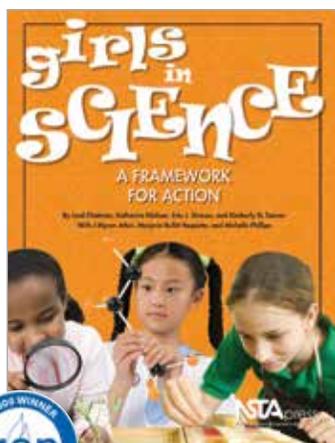
Lori A. Howard and Elizabeth A. Potts

NSTA PRESS, GRADES 9-12

This book offers realistic guidance for helping students with disabilities succeed in advanced science classes. Eight straightforward chapters provide a strong foundation in special education terms and laws; classroom considerations regarding behavior, instruction, labs, and assistive technology; and end-of-year testing.

© 2013; ISBN: 978-1-936959-27-3; 131 pages

Stock #: PB339X Members: \$20.76 Non-members: \$25.95



Girls in Science

A Framework for Action

Liesl Chatman, Katherine Nielsen, Erin J. Strauss, and Kimberly D. Tanner, with J Myron Atkin, Marjorie Bullitt Bequette, and Michelle Phillips

NSTA PRESS, GRADES K-8

Do girls *really* perform poorly in the sciences? Or are they just treated differently from boys in the science classroom? From years of research on gender-equitable science teaching, the authors discovered that changing the way science is taught can level the educational playing field.

This book outlines 15 objectives for improving the way girls learn science. For each goal, the authors include an essay explaining the goal, strategies for achieving the goal, and brief vignettes depicting those strategies. The useful vignettes illustrate problems in science education and provoke readers to discover their own remedies through the use of reflection questions.

© 2008; ISBN: 978-1-933531-04-5; 290 pages

Stock #: PB221X Members: \$15.96 Non-members: \$19.95



Teaching Science to English Language Learners

Building on Students' Strengths

Ann S. Rosebery and Beth Warren, Editors

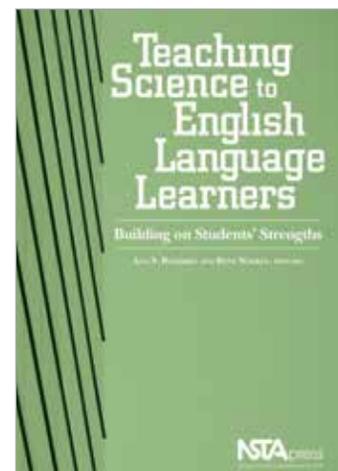
NSTA PRESS, GRADES K-8

Can a student's cultural background support learning in science? Or is concentrating on the specialized vocabulary of science the best way to help English language learners understand science? This book addresses these and other pressing questions that educators face when working with students whose linguistic and cultural backgrounds, as well as their languages, are different than the norm in a given classroom.

Teaching Science to English Language Learners combines research findings with classroom vignettes and the perspectives of teachers. The chapter authors strive to support teachers' efforts to see diversity as a resource—rather than as an obstacle—in the science classroom.

© 2008; ISBN: 978-1-933531-25-0; 199 pages

Stock #: PB218X Members: \$23.16 Non-members: \$28.95



Science for English Language Learners

K-12 Classroom Strategies

Ann K. Fathman and David T. Crowther, Editors

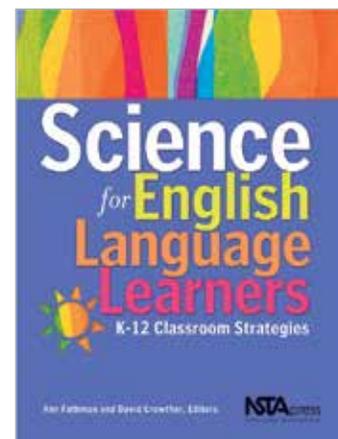
NSTA PRESS, GRADES K-12

Those who work with linguistically and culturally diverse students will see benefits for both teacher and student from the foundation this book provides in both science and language. *Science for English Language Learners* brings the best practices from the different but complementary fields of science education and English language teaching, integrating the two.

The book is designed so that readers can easily dip in and out of topics as desired. It's organized into four sections: (1) principles and practices that science and English teaching share; (2) classroom strategies for planning, teaching, assessing, and extending learning; (3) how to design lessons and model lessons for K-12 students; and (4) context and research, including an overview of science and English as a second language standards; instructional practices; and ways to integrate science, language, and literacy.

© 2006; ISBN: 978-0-87355-253-0; 252 pages

Stock #: PB194X Members: \$23.96 Non-members: \$29.95



Uncovering Student Ideas in Science

BEST-SELLING
SERIES

Tens of thousands of teachers have taken advantage of author Page Keeley's *Uncovering Student Ideas in Science* series to reveal students' preconceptions through the use of probes. Each of the first four volumes provides 25 formative assessment probes with easy-to-follow steps for uncovering and addressing students' ideas by promoting learning through conceptual change instruction. Probes in these volumes cover topics such as physical, life, and Earth and space science; the nature of science; and unifying themes. In addition to these wide-ranging books, the series also includes five topic-specific volumes—*Astronomy*;

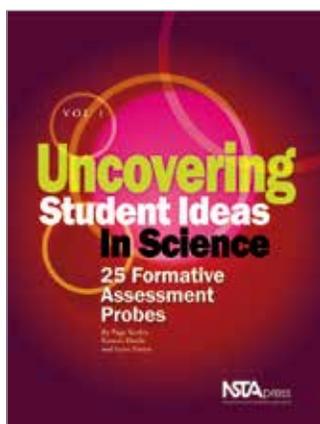
Life Science, Volume 1; and *Physical Science, Volume 1* and *Volume 2*—and one dedicated to grades K–2. *Primary Science, Volume 1* uses minimal (and simple) text and visual representations of familiar objects, phenomena, or ideas.

These popular and invaluable books include teacher materials that explain science content, identify links to national standards, and suggest grade-appropriate ways to present materials so that students learn the concepts accurately. K–12 science teachers, as well as professional development coordinators and college science and preservice faculty, will find these resources essential and exciting.

Page Keeley

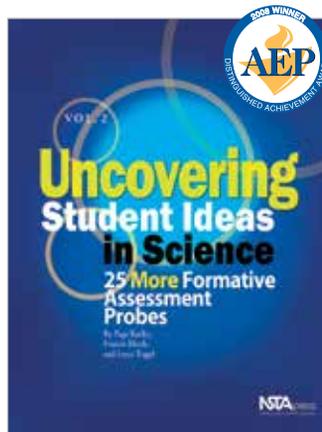
NSTA PRESS, GRADES K–12

Each book Members: **\$25.56** Non-members: **\$31.95**



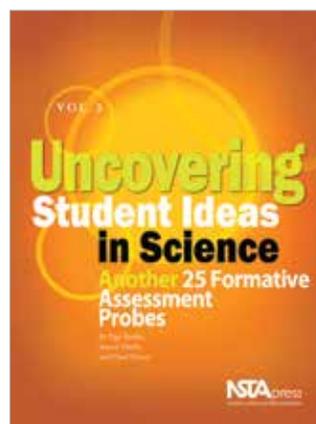
Volume 1
25 Formative Assessment Probes
Francis Eberle and Lynn Farrin, Coauthors

© 2005; ISBN: 978-0-87355-255-4;
193 pages
Stock #: PB193X1



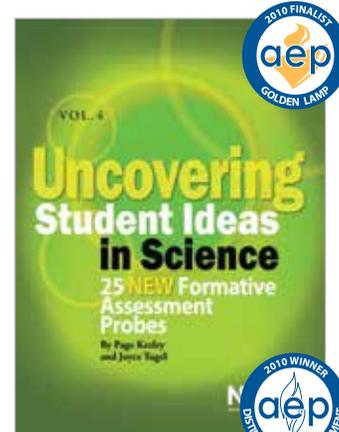
Volume 2
25 More Formative Assessment Probes
Francis Eberle and Joyce Tugel, Coauthors

© 2007; ISBN: 978-0-87355-273-8;
194 pages
Stock #: PB193X2



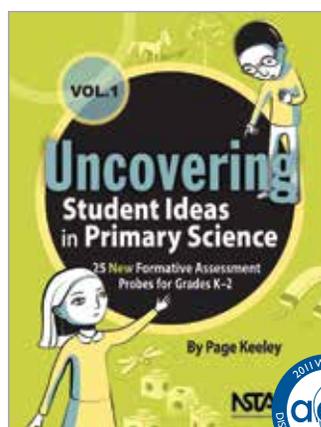
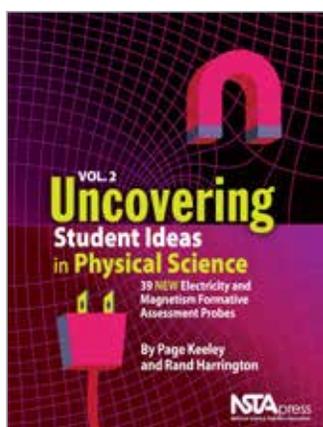
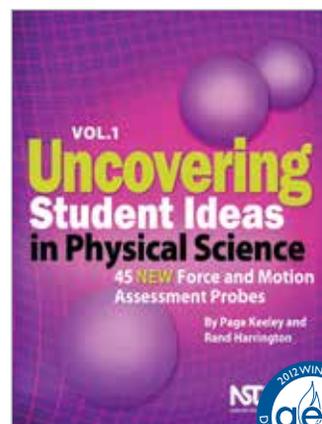
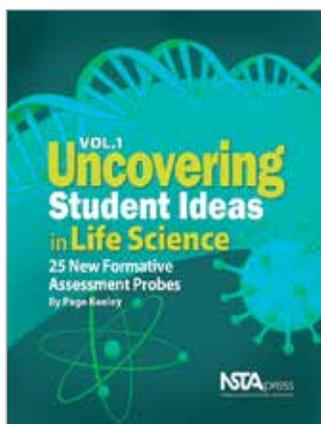
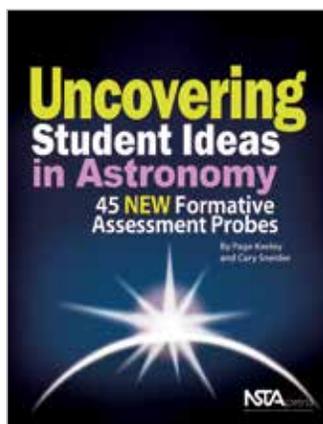
Volume 3
Another 25 Formative Assessment Probes
Francis Eberle and Chad Dorsey, Coauthors

© 2008; ISBN: 978-1-933531-24-3;
198 pages
Stock #: PB193X3



Volume 4
25 New Formative Assessment Probes
Joyce Tugel, Coauthor

© 2009; ISBN: 978-1-935155-01-0;
184 pages
Stock #: PB193X4



Uncovering Student Ideas in Astronomy

45 New Formative Assessment Probes

Cary Snieder, Coauthor

© 2012; ISBN: 978-1-936137-38-1; 255 pages

Stock # PB307X Members: \$30.36 Non-members: \$37.95

Uncovering Student Ideas in Life Science, Volume 1

25 New Formative Assessment Probes

© 2011; ISBN: 978-1-936137-17-6; 162 pages

Stock #: PB291X1 Members: \$25.56 Non-members: \$31.95

Uncovering Student Ideas in Physical Science, Volume 1

45 New Force and Motion Assessment Probes

Rand Harrington, Coauthor

© 2010; 978-1-935155-18-8; 214 pages

Stock #: PB274X1 Members: \$30.36 Non-members: \$37.95

Uncovering Student Ideas in Physical Science, Volume 2

39 New Electricity and Magnetism Formative Assessment Probes

© 2014; ISBN: 978-1-936137-37-84; 190 pages

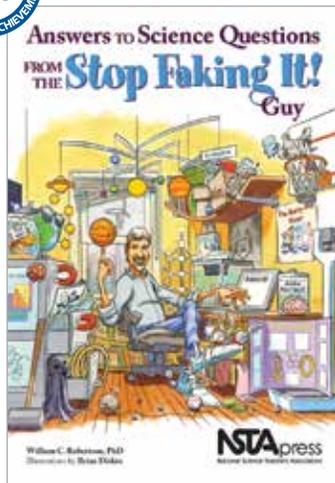
Stock #: PB274X2 Members: \$30.36 Non-members: \$37.95

Uncovering Student Ideas in Primary Science, Volume 1

25 New Formative Assessment Probes for Grades K-2

© 2013; ISBN: 978-1-936959-51-8; 123 pages

Stock #: PB335X1 Members: \$25.56 Non-members: \$31.95



Association Media & Publishing 2010 EXCEL Award Winner!

Answers to Science Questions From the *Stop Faking It!* Guy

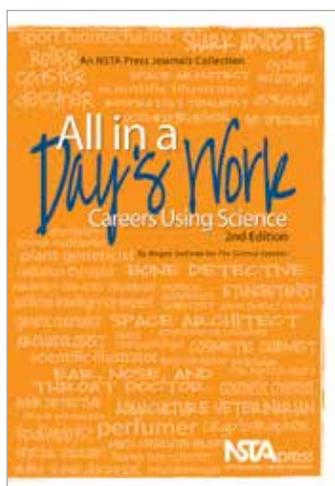
William C. Robertson; Brian Diskin, Illustrator

An **NSTA PRESS** Journals Collection, **GRADES K–8**

This valuable compendium of Bill Robertson's popular "Science 101" columns, from *Science and Children*, proves you don't have to be a geek to understand basic scientific concepts. The author of the bestselling *Stop Faking It!* series explains everything from quarks to photosynthesis, telescopes to the expanding universe, and atomic clocks to curveballs—all with his trademark wit and irreverence. The 33 short columns cover topics in life science, Earth and space science, physical science, technology, and more—perfect for K–8 teachers or parents who want to boost their science know-how. Easily understood prose and lively illustrations make this volume the most engaging and, more important, *readable* science text currently available.

© 2009; ISBN: 978-1-935155-24-9; 176 pages

Stock #: PB270X Members: \$19.96 Non-members: \$24.95



All in a Day's Work, 2nd Edition

Careers Using Science

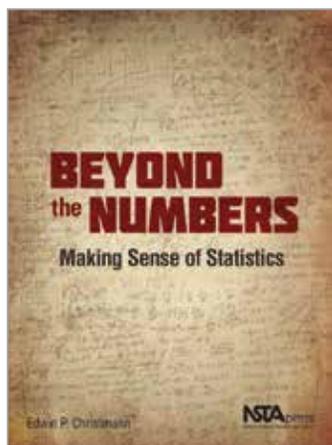
Megan Sullivan

An **NSTA PRESS** Journals Collection, **GRADES 9–12**

All in a Day's Work is a compendium of 49 of the popular "Career of the Month" columns from the NSTA high school journal *The Science Teacher*. Each column profiles a person in a science-related job and can be shared with students as they make career and education plans. This expanded second edition gives an exciting look at the vast array of jobs built on a foundation of science, including the expected (high school science teacher, microbiologist, radiation therapist); the unexpected (bomb investigator, space architect, musical acoustics scientist); the adventurous (astronaut, deep-cave explorer, dinosaur paleontologist); and the offbeat (shark advocate, roller coaster designer, oyster wrangler).

© 2008; ISBN: 978-1-933531-45-8; 140 pages

Stock #: PB207E2 Members: \$6.36 Non-members: \$7.95



Beyond the Numbers

Making Sense of Statistics

Edwin P. Christmann

NSTA PRESS, GRADES 6–12

Teachers and administrators are asked on a daily basis to use data to measure the performance of their schools, their students, and even the results of a classroom science lab. *Beyond the Numbers* presents a no-nonsense, practical approach to statistics, providing step-by-step instructions for understanding and implementing the essential components of the subject. Basic explanations that break down complex statistical processes into simple arithmetic computations will enable educators to apply the functions with confidence. Each chapter includes key terms, chapter review questions (and answers), reading lists, and internet resources.

© 2012; ISBN: 978-1-935155-25-6; 216 pages

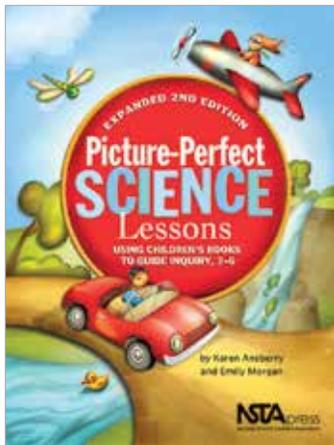
Stock #: PB312X Members: \$23.16 Non-members: \$28.95

TEACHING THE **Picture-Perfect** WAY

Integrating Reading, Science, and Inquiry in One Complete Package

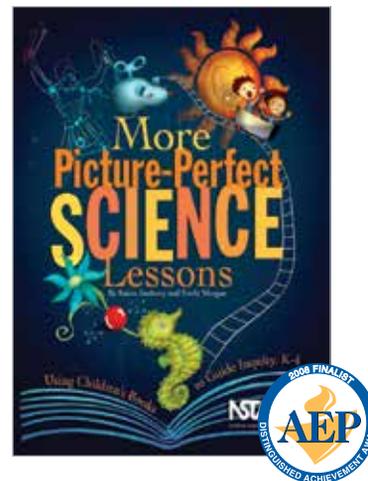


Never before has it been this easy to interest students in reading and science. *Picture-Perfect Science Lessons, Expanded 2nd Edition*, winner of an *Association Media & Publishing EXCEL Award*, and its sequel, *More Picture-Perfect Science Lessons*, combine the appeal of children's picture books with standards-based science content. The bestselling series contains lessons, complete with student pages and assessments, that use picture books to guide science instruction. *Even More Picture-Perfect Science Lessons*—the latest volume in the series—provides new lessons, introduces more children's books, and covers additional engaging topics.



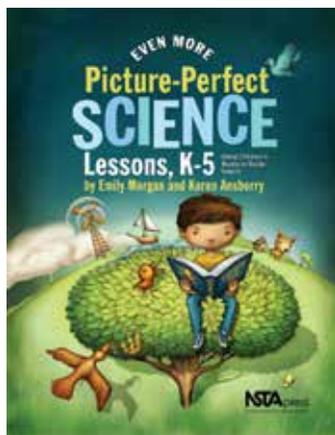
Picture-Perfect Science Lessons, Expanded 2nd Edition
Using Children's Books to Guide Inquiry, 3–6
 Karen Ansberry and Emily Morgan
NSTA PRESS, GRADES 3–6

© 2010; ISBN: 978-1-935155-16-4; 403 pages
 Stock #: PB186E2 Members: \$33.56 Non-members: \$41.95



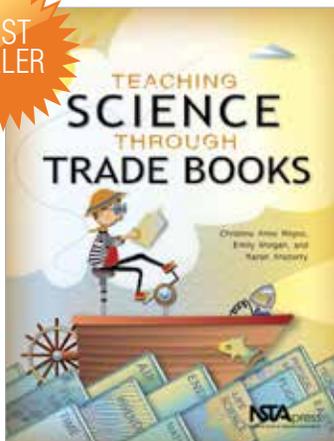
More Picture-Perfect Science Lessons
Using Children's Books to Guide Inquiry, K–4
 Karen Ansberry and Emily Morgan
NSTA PRESS, GRADES K–4

© 2007; ISBN: 978-1-933531-12-0; 238 pages
 Stock #: PB186X2 Members: \$30.36 Non-members: \$37.95



Even More Picture-Perfect Science Lessons
Using Children's Books to Guide Inquiry, K–5
 Emily Morgan and Karen Ansberry
NSTA PRESS, GRADES K–5

© 2013; ISBN: 978-1-935155-17-1; 250 pages
 Stock #: PB186X3 Members: \$31.96 Non-members: \$39.95



Teaching Science Through Trade Books

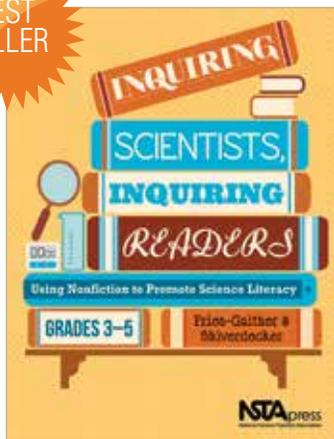
Christine Anne Royce, Emily Morgan, and Karen Ansberry

An **NSTA PRESS** Journals Collection, **GRADES K-6**

This innovative text helps educators engage reluctant scientists (through books) while also enticing struggling readers (through science). The key is this collection of popular “Teaching Through Trade Books” columns from NSTA’s award-winning journal *Science and Children*. By using children’s books to pique students’ interest, educators can effectively—and efficiently—combine science teaching with reading instruction. The three veteran teachers who pen the regular column have handpicked 50 of their favorites, updated them, and added new student activity pages. Each lesson includes a targeted K-3 activity and a grade 4-6 activity.

© 2012; ISBN: 978-1-936959-13-6; 326 pages

Stock #: PB315X Members: \$27.96 Non-members: \$34.95



Inquiring Scientists, Inquiring Readers

Using Nonfiction to Promote Science Literacy, Grades 3-5

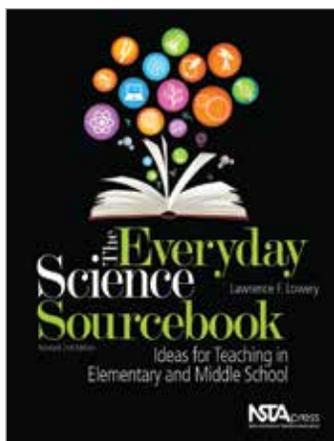
Jessica Fries-Gaither and Terry Shiverdecker

NSTA PRESS, GRADES 3-5

Here’s proof that it’s possible to integrate literacy into elementary-level science instruction without sacrificing quality in either. *Inquiring Scientists, Inquiring Readers* shows how to engage students in reading nonfiction texts, discussing science concepts, and writing to understand and share information. Several aspects of the book set its approach apart. It draws on a variety of nonfiction text sets, such as field guides, reference books, and narrative expository texts. Instead of individual lessons, it recommends a learning-cycle format that incorporates hands-on investigations, readings, directed discussion, and problem solving.

© 2013; ISBN: 978-1-936959-10-5; 304 pages

Stock #: PB325X Members: \$30.36 Non-members: \$37.95



The Everyday Science Sourcebook, Revised 2nd Edition

Ideas for Teaching in Elementary and Middle School

Lawrence F. Lowery

NSTA PRESS, GRADES K-8

Think of this unique reference book as Inspiration Central for elementary and middle school science teachers. Fully updated, this new edition of *The Everyday Science Sourcebook* is structured like an easy-to-use thesaurus. Educators can easily look up a topic in the index, note the reference number, and then use that number to find a wealth of related activities in the entry section.

© 2012; ISBN: 978-1-936959-09-9; 537 pages

Stock #: PB320X Members: \$34.36 Non-members: \$42.95

Predict, Observe, Explain

Activities Enhancing Scientific Understanding

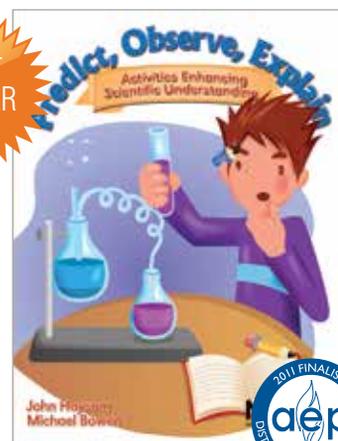
John Haysom and Michael Bowen

NSTA PRESS, GRADES 7–12

This research-based book provides more than 100 student activities to prove scientific concepts through the use of Predict, Observe, Explain sequences. This powerful classroom strategy, field-tested by hundreds of teachers, is designed to foster student inquiry and challenge preconceptions that students bring to the classroom. Accompanying the activities are worksheets, scientific explanations of the phenomena being studied, a summary of student responses obtained during the field tests, a synopsis of the relevant research findings, and a list of required materials.

© 2010; ISBN: 978-1-935155-23-2; 320 pages

Stock #: PB281X Members: \$27.96 Non-members: \$34.95



Activities Linking Science With Math

John Eichinger

NSTA PRESS, GRADES K–4 and 5–8

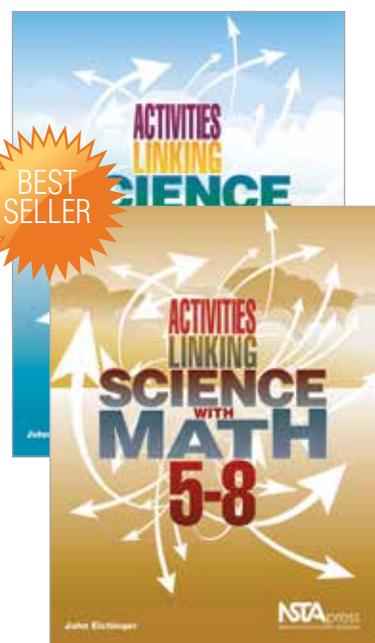
With volumes for both elementary and middle school teachers, *Activities Linking Science With Math* is a hands-on guide for connecting science instruction with other areas of study — visual arts, social sciences, language arts, and especially math. Each book provides 20 engaging and academically rigorous lessons with lists of needed materials, step-by-step procedures, discussion questions, and assessment techniques. The activities, which allow students to explore and discover through their own observations and conclusions, align with the standards for both science and math. Topics include general science, physical science, chemistry, Earth science, and life science.

© 2009; ISBN: 978-1-933531-42-7; 212 pages (Grades K–4)

Stock #: PB236X Members: \$23.16 Non-members: \$28.95

© 2009; ISBN: 978-1-933531-43-4; 223 pages (Grades 5–8)

Stock #: PB236X2 Members: \$23.16 Non-members: \$28.95



The Frugal Science Teacher

Strategies and Activities

Linda Froschauer, Editor

An **NSTA PRESS** Journals Collection, **GRADES PREK–5 and 6–9**

Teachers on limited budgets, and those used to dipping into their own wallets to outfit their classrooms with supplies that school and district budgets can't cover, will love this collection of essays outlining strategies to develop students' conceptual understanding — while keeping expenses to a minimum. Chapters provide alternatives to costly classroom projects, offer re-imagined uses for items that teachers already have at home or school, and suggest new and untapped resources for materials. A list of the many free resources available from NSTA is also included.

© 2010; ISBN: 978-1-936137-01-5; 164 pages (Grades PreK–5)

Stock #: PB276X Members: \$22.36 Non-members: \$27.95

© 2010; ISBN: 978-1-936137-03-9; 168 pages (Grades 6–9)

Stock #: PB276X2 Members: \$22.36 Non-members: \$27.95

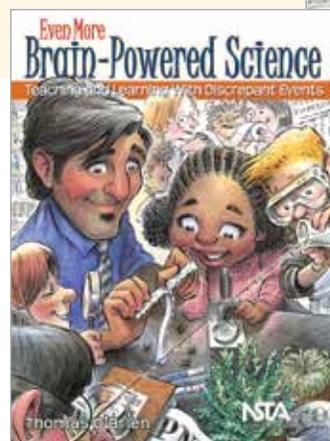
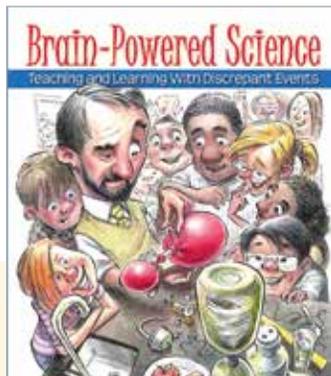


Brain-Powered Science

Teaching and Learning With Discrepant Events

Thomas O'Brien

NSTA PRESS, GRADES 5–12



Engaging students' natural curiosity in science just got easier. The *Brain-Powered Science* series features 68 hands-on inquiry activities based on the science of a "discrepant event." Author **Thomas O'Brien** describes a discrepant event as an experiment or demonstration in which the outcome is not what students expect. He uses these events to motivate learners to reconsider preconceived notions and focus on what has actually occurred. Each activity, bound to surprise and challenge, begins with a question such as, "What can a chocolate chip cookie tell you about the Earth's resources and the importance of environmental conservation?" or, "How can water and a penny demonstrate the power of mathematics and molecular theory?" K–12 preservice and inservice teachers can use this bestselling series as the framework for a professional development program or as a supplement to conventional science teaching methods. Each chapter includes an introduction, an explanation of science concepts used, a materials list, teacher debriefing tools, safety notes, and additional internet resources.

Brain-Powered Science

© 2010; ISBN: 978-1-935155-10-2; 386 pages

Stock #: PB271X Members: \$27.16 Non-members: \$33.95

More Brain-Powered Science

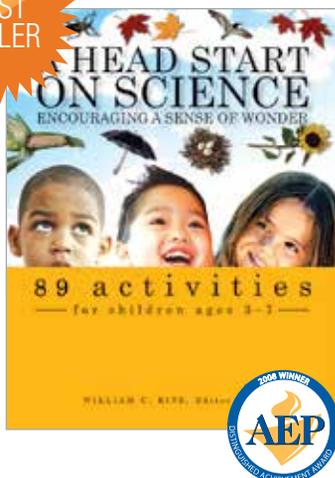
© 2011; ISBN: 978-1-936137-18-3; 330 pages

Stock #: PB271X2 Members: \$26.36 Non-members: \$32.95

Even More Brain-Powered Science

© 2011; ISBN: 978-1-936137-21-3; 294 pages

Stock #: PB271X3 Members: \$26.36 Non-members: \$32.95



A Head Start on Science

Encouraging a Sense of Wonder

William C. Ritz, Editor

NSTA PRESS, GRADES PREK–2

A Head Start on Science is a treasure trove of 89 hands-on science activities designed specifically for children ages three to six. The activities are grouped into seven stimulating topic areas: the five senses, weather, physical science, critters, water and water mixtures, seeds, and nature walks. The book also includes *family* science activities in both English and Spanish.

© 2007; ISBN: 978-1-933531-02-1; 344 pages

Stock #: PB208X Members: \$23.96 Non-members: \$29.95

Start Young!

Early Childhood Science Activities

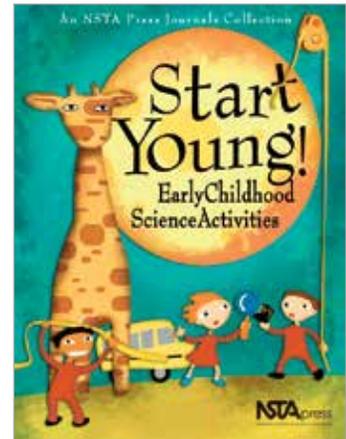
Shannan McNair, Editor

An **NSTA PRESS** Journals Collection, **GRADES PREK-2**

Start Young! offers a wealth of easy-to-do educational activities specifically designed for everyday use when teaching the littlest scientists. Included are two dozen articles compiled from *Science and Children*, NSTA's award-winning journal for elementary school teachers. A chapter of helpful background on the latest thinking about effective ways to introduce science in early childhood offers additional insights.

© 2006; ISBN: 978-0-87355-268-4; 174 pages

Stock #: PB197X Members: \$17.56 Non-members: \$21.95



Tried and True

Time-Tested Activities for Middle School

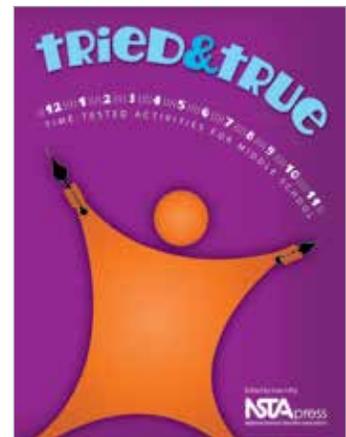
Inez Fugate Liftig, Editor

An **NSTA PRESS** Journals Collection, **GRADES 5-8**

A compilation of popular "Tried and True" columns from the award-winning journal *Science Scope*, this book is filled with teachers' best classroom activities. These time-tested favorites are organized into five topics: instructional strategies, life science, Earth and space science, physics, and chemistry. The hands-on activities pique students' interest, demonstrate important science concepts, and fit easily into a middle school curriculum.

© 2010; ISBN: 978-1-936137-13-8; 197 pages

Stock #: PB288X Members: \$20.76 Non-members: \$25.95



Animal Coloration

Activities on the Evolution of Concealment

Robert Stebbins, David Ipsen, and Gretchen Gillfillan

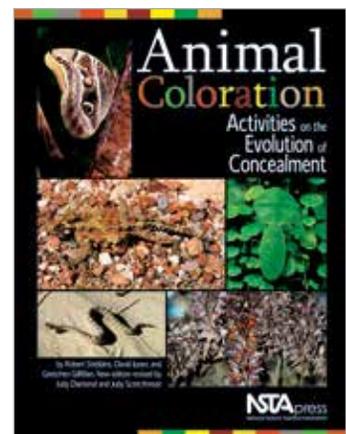
New Edition revised by Judy Diamond and Judy Scotchmoor

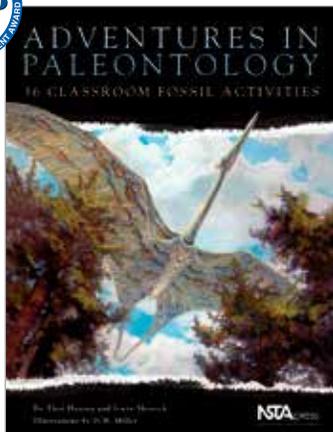
NSTA PRESS, GRADES 4-8

Using an inductive and experimental approach, *Animal Coloration* aims to increase students' awareness of the ways wild organisms are adapted to their environments. Each activity is intended to be an investigation by the students and an opportunity for them to make and test hypotheses based on their observations. Through these activities, students will begin to appreciate how scientific knowledge and understanding are attained.

© 2008; ISBN: 978-1-933531-29-8; 174 pages

Stock #: PB224X Members: \$15.96 Non-members: \$19.95





Adventures in Paleontology

36 Classroom Fossil Activities

Thor Hansen and Irwin Slesnick; D. W. Miller, Illustrator

NSTA PRESS, GRADES 5–8

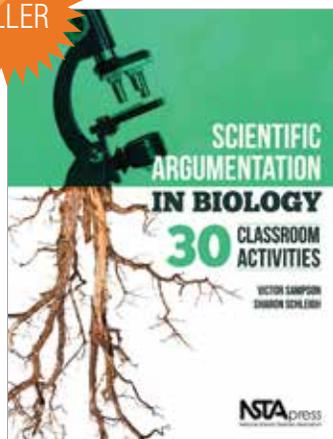
This book features 36 activities that introduce a variety of foundational sciences, including biology, geology, chemistry, physics, and astronomy. Illustrations show not just skeletons and animal tracks but also what dinosaurs probably looked like in their natural settings. Chapters cover the age of the Earth; dinosaur evolution; diversity, classification, and taxonomy; and humanistic perspectives on fossils in literature and art.

© 2006; ISBN: 978-0-87355-272-1; 129 pages

Stock #: PB201X

Members: \$7.96

Non-members: \$9.95



Scientific Argumentation in Biology

30 Classroom Activities

Victor Sampson and Sharon Schleigh

NSTA PRESS, GRADES 6–12

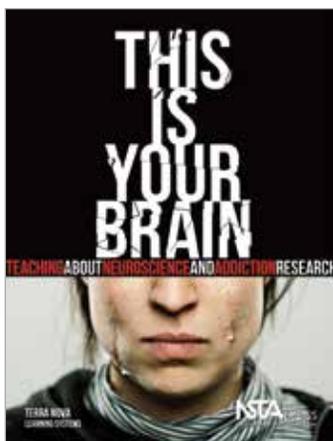
Like three guides in one, *Scientific Argumentation in Biology* combines theory, practice, and biological content. This thought-provoking book starts by providing solid background in why students need to be able to go beyond expressing mere opinions when making research-related biology claims. Then it offers 30 field-tested activities that students can use when learning to propose, support, and evaluate claims; validate or refute them on the basis of scientific reasoning; and craft complex written arguments. Detailed teacher notes suggest specific ways to use the activities to enrich and supplement (not replace) what is being done in class already.

© 2013; ISBN: 978-1-936137-27-5; 382 pages

Stock #: PB304X

Members: \$31.16

Non-members: \$39.95



This Is Your Brain

Teaching About Neuroscience and Addiction Research

Terra Nova Learning Systems

NSTA PRESS, GRADES 6–8

This innovative curriculum presents 10 comprehensive, ready-to-use lessons about issues involved in drug use and abuse. The 45-minute lessons guide middle schoolers through brain structure and function, the neurobiology of drug addiction, the role of biomedical research in understanding addiction and prevention, and the ethics of including animals in biomedical research. Included are lesson plans for teachers, interactive learning materials for students, and companion materials for parents. The unit is ideal for middle school teachers of science, health, physical education, and family consumer science.

© 2012; ISBN: 978-1-933531-22-9; 287 pages

Stock #: PB321X

Members: \$23.96

Non-members: \$29.95

Once Upon a Life Science Book

12 Interdisciplinary Activities to Create Confident Readers

Jodi Wheeler-Toppen

NSTA PRESS, GRADES 6–8

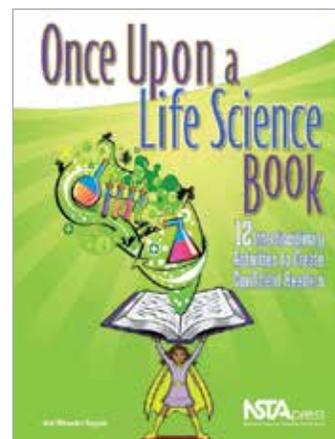
Time-strapped middle school teachers will appreciate this interdisciplinary approach to teaching reading instruction and life science. With 12 inquiry-based science lessons that build student knowledge of content *and* improve reading skills, author Jodi Wheeler-Toppen teaches topics such as the cell cycle, genetics, and food chains. Using accessibly written science readings along with strategies such as comprehension coding, chunking, and identifying text signals, teachers can successfully improve students' learning in two disciplines.

© 2010; 978-1-935155-09-6; 161 pages

Stock #: PB275X

Members: \$18.36

Non-members: \$22.95



Hard-to-Teach Biology Concepts

A Framework to Deepen Student Understanding

Susan Koba, with Anne Tweed

NSTA PRESS, GRADES 9–12

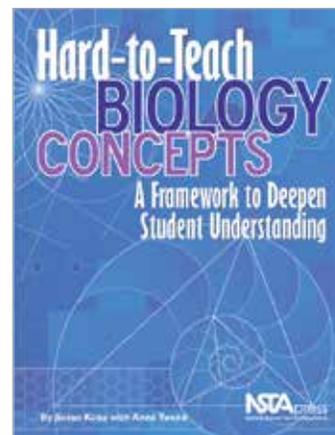
Biology teachers who want to conquer traditionally hard-to-teach biology concepts can use this well-researched text to put a framework for lesson planning in place, to explore the authors' shared approaches for developing student understanding, and to use those approaches on specific topics that have proved difficult. Five case studies on meiosis and variation, photosynthesis, natural selection, proteins and genes, and environmental systems and human impact are explored, with teacher resources included. The authors counsel educators on identification of student preconceptions and share strategies that promote the greatest student learning.

© 2009; ISBN: 978-1-933531-41-0; 260 pages

Stock #: PB238X

Members: \$27.16

Non-members: \$33.95



The Biology Teacher's Handbook, 4th Edition

BSCS and **NSTA PRESS, GRADES 6–COLLEGE**

Regardless of the depth of an educator's experience, this essential volume enables any reader to gain greater insight into what constitutes good teaching, how to guide students through inquiry at varying levels, and how to create a culture of inquiry using science notebooks and other strategies. In addition, educators will learn tactics for including controversial subjects in courses, promoting scientific discussion, and choosing the right materials—information that benefits any teacher.

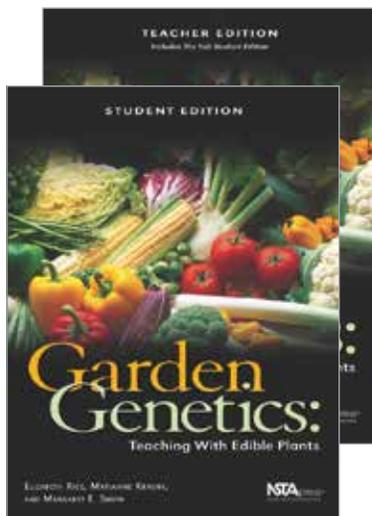
© 2009; ISBN: 978-0-87355-244-8; 338 pages; hardbound

Stock #: PB268X

Members: \$23.96

Non-members: \$29.95





Garden Genetics

Teaching With Edible Plants

Elizabeth Rice, Marianne E. Krasny, and Margaret E. Smith

NSTA PRESS, GRADES 9–12

With *Garden Genetics*, teachers can present core content in ways that are fun for students and fresh for the instructor. This two-part set is adaptable to biology students at all levels, including Advanced Placement. It uses a series of activities and inquiry-based experiments with familiar foods to teach genetics while helping students make connections to ecology, evolution, plant biology, and even social science. Educators can use each chapter as a stand-alone unit or teach the book in its entirety.

© 2006; ISBN: 978-0-87355-264-6; 333 pages (Teacher Edition)

Stock #: PB199XT Members: \$7.96 Non-members: \$9.95

© 2006; ISBN: 978-0-87355-274-5; 152 pages (Student Edition)

Stock #: PB199XS Members: \$5.56 Non-members: \$6.95

Diagnosis for Classroom Success

Making Anatomy and Physiology Come Alive

Nicole H. Maller

NSTA PRESS, GRADES 9–12

After conducting research at a rigorous medical school, students arrive for their first day of hospital duty only to be confronted with four sick patients, each with a different mystery ailment. The attention-grabbing narrative and corresponding role-plays are the basis of *Diagnosis for Classroom Success: Making Anatomy and Physiology Come Alive*. This high school curriculum gets students deeply involved in inquiry-based science as it acquaints them with major body systems, sickle cell anemia, HIV, pregnancy, and diabetes. The Student Edition guides students while they examine medical records, form hypotheses, and conduct simulated lab tests. The Teacher Edition (which includes the Student Edition) spells out the book's relevance to *A Framework for K–12 Science Education* and provides rubrics, answer keys, and prep tips to use before, during, and after the lessons.

© 2013; ISBN: 978-1-936959-52-5; 244 pages (Teacher Edition)

Stock #: PB338XT Members: \$23.16 Non-members: \$28.95

© 2013; ISBN: 978-1-936959-50-1; 96 pages (Student Edition)

Stock #: PB338XS Members: \$11.96 Non-members: \$14.95

40 Inquiry Exercises for the College Biology Lab

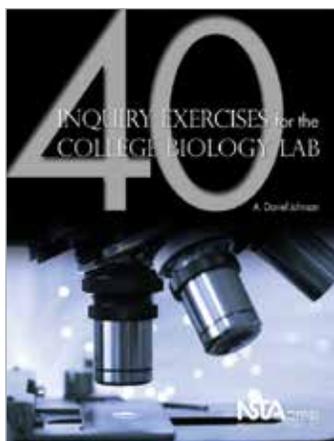
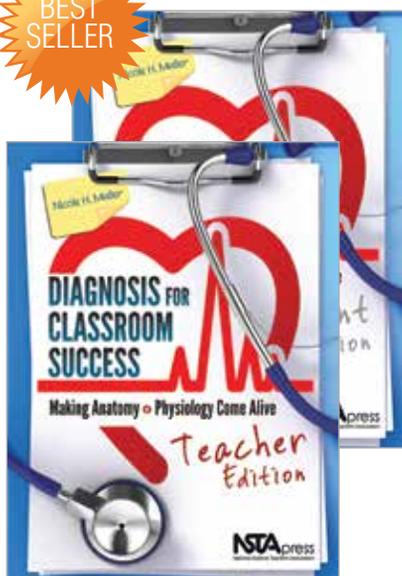
A. Daniel Johnson

NSTA PRESS, COLLEGE

This one-of-a-kind text for college biology teachers uses an inquiry-based approach in presenting 40 different lab exercises. The volume covers a broad range of subjects such as Mendelian genetics, photosynthesis, neuromuscular control, and population ecology. Each of the 16 units contains classroom-ready exercises for students, plus instructor and preparatory notes.

© 2009; ISBN: 978-1-933531-39-7; 514 pages

Stock #: PB232X Members: \$19.96 Non-members: \$24.95



Earth Science Puzzles

Making Meaning From Data

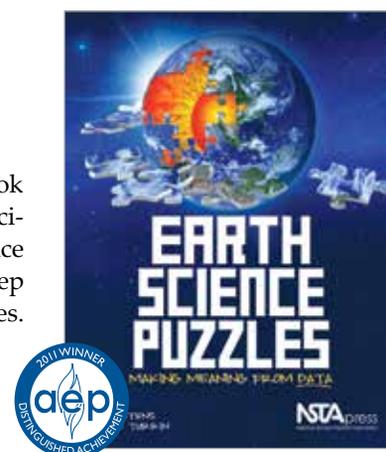
Kim Kastens and Margie Turrin

NSTA PRESS, GRADES 8–12

Teachers of Earth and environmental sciences in grades 8–12 will embrace this activity book centered on six “data puzzles” that foster critical-thinking skills in students and support science and math learning. *Earth Science Puzzles* presents professionally gathered Earth science data—including graphs, maps, tables, images, and narratives—and asks students to step into scientists’ shoes using temporal, spatial, and quantitative reasoning to draw inferences.

© 2010; ISBN: 978-1-935155-15-7; 186 pages

Stock #: PB286X Members: \$22.36 Non-members: \$27.95



Climate Change From Pole to Pole

Biology Investigations

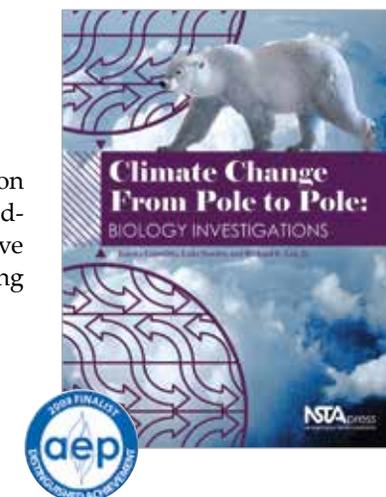
Juanita Constible, Luke Sandro, Richard E. Lee Jr.

NSTA PRESS, GRADES 9–COLLEGE

This book offers timely, relevant, biology-based case studies and background information on how to teach the science of climate change. The six painstakingly researched and field-tested activities, which build on four content chapters, give students the opportunity to solve real-life scientific problems using guiding questions, graphs and data tables, short reading assignments, and independent research.

© 2008; ISBN: 978-1-933531-23-6; 238 pages

Stock #: PB225X Members: \$15.96 Non-members: \$19.95



Earth Science Success

50 Lesson Plans for Grades 6–9

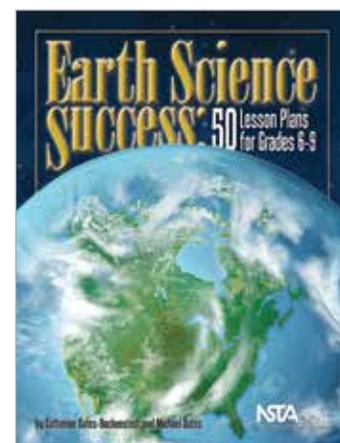
Catherine Oates-Bockenstedt and Michael Oates

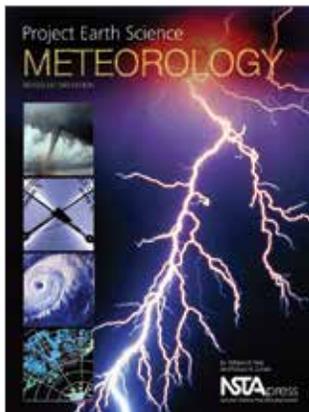
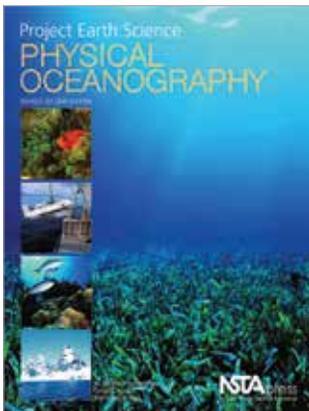
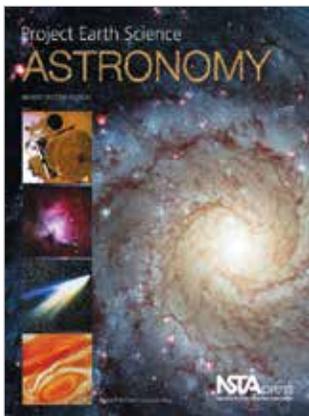
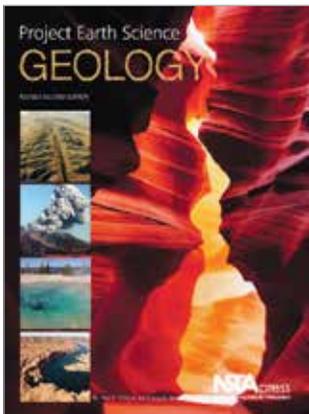
NSTA PRESS, GRADES 6–9

This ready-to-use survival guide provides an entire year’s worth of inquiry-based and discovery-oriented Earth science lessons, including 33 investigations and 17 detailed projects. A unique collection of astronomy, geology, meteorology, and physical oceanography lessons promotes deeper understanding of science concepts through a hands-on approach. Field-tested and standards-based, this volume is ideal for university-level methodology courses in science education as well as Earth science middle school teachers.

© 2008; ISBN: 978-1-933531-35-9; 321 pages

Stock #: PB226X Members: \$22.36 Non-members: \$27.95





Project Earth Science

NSTA PRESS, GRADES 5–10

Each book: Members: **\$26.36** Non-members: **\$32.95**



Geology, Revised 2nd Edition

Paul D. Fullagar and Nancy W. West

This updated edition covers plate tectonics and how it causes volcanoes, earthquakes, and other geological phenomena. The standards-based activities help uncover students' preconceptions while demonstrating big concepts such as the Earth's physical evolution and its dynamic processes. The lessons are carefully explained in language accessible to students and teachers and are accompanied by brief overviews, lists of materials needed, questions to consider, background information, classroom management tips, and integration possibilities.

© 2011; ISBN: 978-1-936137-30-5; 248 pages

Stock #: PB298X1

Astronomy, Revised 2nd Edition

Geoff Holt and Nancy W. West

This second edition spotlights ways to teach students about everything from why Earth has seasons to what a light-year is. This book features an inquiry-based approach to material that is often taught at an observation-knowledge level. Teachers will appreciate the newly added sections within each activity that focus on differentiated learning, assessment, and supplemental resources. As an added bonus, there is a section for teachers on potential student preconceptions that contains questions designed to help draw students into discussion.

© 2011; ISBN: 978-1-936137-33-6; 174 pages

Stock #: PB298X2

Physical Oceanography, Revised 2nd Edition

Alfredo L. Aretxabaleta, Gregg R. Brooks, and Nancy W. West

Physical Oceanography immerses students in activities that focus on water, the substance that covers nearly three-quarters of Earth's surface. Eighteen ready-to-use, teacher-tested classroom activities and supplemental readings offer explorations and straightforward explanations to foster intuitive understanding of key science concepts. Students cover topics such as the structure of water molecules, saltwater and freshwater mixing, and tidal forces as they create waves, dissolve substances, float eggs, and more.

© 2011; ISBN: 978-1-936959-02-0; 258 pages

Stock #: PB298X3

Meteorology, Revised 2nd Edition

William R. Veal and Robert A. Cohen

Meteorology involves students in activities that focus on the origin and composition of Earth's atmosphere, factors that contribute to weather, and the concept of air masses and how they interact to produce weather. The 19 hands-on activities and corresponding readings include making clouds and hail; building weather maps; and investigating the causes of smog, ozone depletion, and acid rain. Whether exploring basic principles or following real-world examples, students will agree that discovering how weather works can be fun!

© 2011; ISBN: 978-1-936959-03-7; 312 pages

Stock #: PB298X4

Watershed Investigations

12 Labs for High School Science

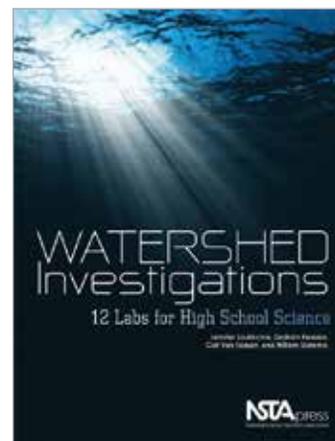
Jennifer Soukhome, Graham Peaslee, Carl Van Faasen, and William Statema

NSTA PRESS, GRADES 9–12

Offering high school educators a broad-based foundation from which to study human effects on watersheds, this book provides teachers with flexible, customizable experiments that combine discovery with methods of scientific research. This collection of experiments helps students explore environmental science from the ground up. Covering a variety of disciplines—geology, chemistry, Earth science, botany, and biology—*Watershed Investigations* supplies teachers with extensive background and reference information.

© 2009; ISBN: 978-1-933531-48-9; 175 pages

Stock #: PB233X Members: \$15.96 Non-members: \$19.95



Bringing Outdoor Science In

Thrifty Classroom Lessons

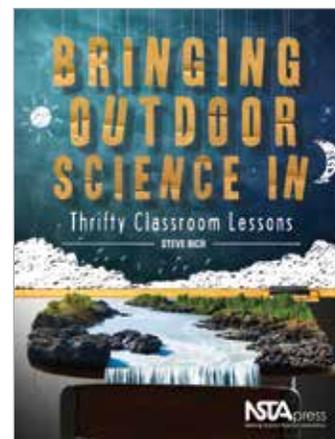
Steve Rich

NSTA PRESS, GRADES K–8

When it's just not possible to take students out to explore the natural world, bring the natural world in. Clearly organized and easy to use, this helpful guide contains more than 50 science lessons in six units: greening the school; insects; plants; rocks and soils; Earth's water; and weather, the solar system, and air pollution. All lessons come ready to teach. They include objectives, materials lists, procedures, reproducible data sheets, ideas for adapting to different grade levels, discussion questions, and next steps.

© 2012; ISBN: 978-1-936959-04-4; 164 pages

Stock #: PB314X Members: \$20.76 Non-members: \$25.95



Outdoor Science

A Practical Guide

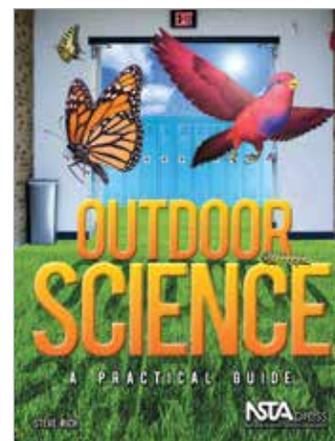
Steve Rich

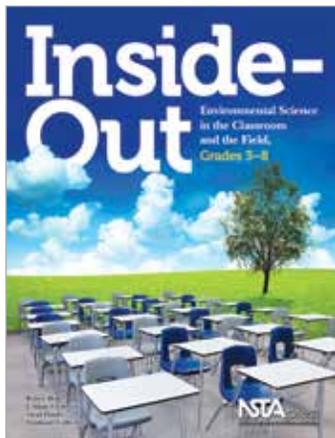
NSTA PRESS, GRADES 3–8

Elementary and middle school educators can create outdoor learning spaces to use from year to year with *Outdoor Science*. Author Steve Rich provides suggestions for establishing stimulating outdoor classrooms for students with little extra effort or resources. The simple and inexpensive lessons satisfy national standards in the areas of life, Earth, and environmental sciences and offer interdisciplinary activities in math, social studies, and language arts.

© 2010; ISBN: 978-1-935155-12-6; 140 pages

Stock #: PB272X Members: \$20.76 Non-members: \$25.95





Inside-Out

Environmental Science in the Classroom and the Field, Grades 3–8

Robert W. Blake Jr., J. Adam Frederick, Sarah Haines, and Stephanie Colby Lee

NSTA PRESS, GRADES 3–8

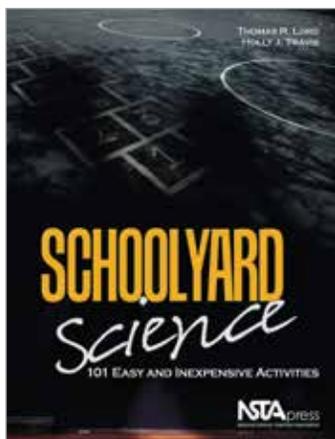
Field-based and classroom activities make up this resource for elementary and middle school teachers who want to give their students experiences with the natural world. Using direct observation and inquiry, the authors offer multidisciplinary learning opportunities. The well-developed lessons cover topics such as water, physical geography, soil, topography, nutrients and energy, and biodiversity—and include primers to help teachers refresh their own content knowledge. Numerous web resources help teachers overcome the challenges of engaging students in inquiry projects and field-based learning experiences.

© 2010; 978-1-935155-11-9; 165 pages

Stock #: PB273X

Members: \$20.76

Non-members: \$25.95



Schoolyard Science

101 Easy and Inexpensive Activities

Thomas R. Lord and Holly J. Travis

NSTA PRESS, GRADES K–12

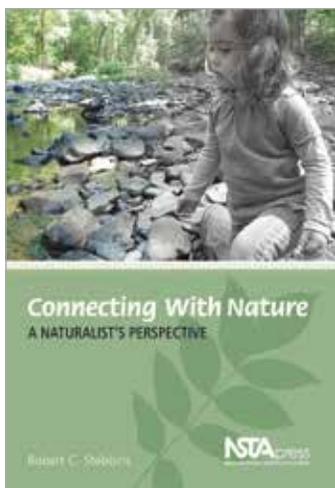
Science teachers will appreciate these practical and inexpensive activities intended to help students develop their observation and inquiry skills, as well as an appreciation for the natural environment. The wide-ranging activities, adaptable to any grade level, cover topics such as lower and complex plants, gardens, insects and other invertebrates, vertebrates, energy, how animals work, and Earth science. The activities have been tested successfully in K–12 classrooms, youth camp programs, and science education classes in teacher preparation programs.

© 2011; ISBN: 978-1-936137-16-9; 136 pages

Stock #: PB293X

Members: \$22.36

Non-members: \$27.95



Connecting With Nature

A Naturalist's Perspective

Robert C. Stebbins

NSTA PRESS, GRADES K–12

This book is the next best thing to a long walk with a genuine nature lover. Taking what he calls “a nature-centered world view,” renowned author Robert Stebbins blends activities, examples, and stories with his perspectives on the importance of dealing objectively yet compassionately with social and environmental problems. In part, the book is a treatise about the future of nature and humans’ role in it, as both protectors and members of the natural world. But it’s also a charming source of activities adaptable to all ages and interests. Above all, *Connecting With Nature* is Stebbins’s personal story of how he developed the passion for nature that made him want to preserve it for future generations. By example, he shows how to instill a similar love in students.

© 2012; ISBN: 978-1-936959-11-2; 206 pages

Stock #: PB318X

Members: \$19.96

Non-members: \$24.95

Buzz Into Action

The Insect Curriculum Guide for Grades K–4

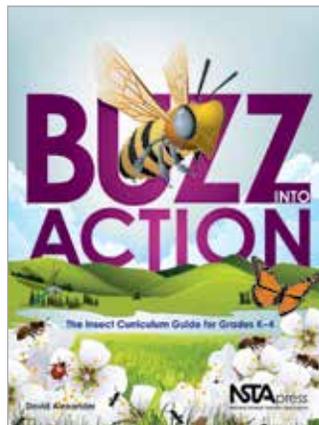
Hop Into Action

The Amphibian Curriculum Guide for Grades K–4

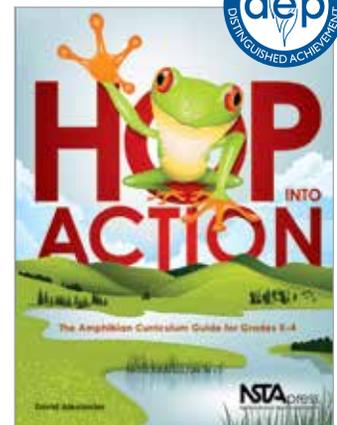
David Alexander

NSTA PRESS, GRADES K–4

Two books from the experienced naturalist David Alexander introduce young learners to the joy of insects, amphibians, and environmental science. For ease of use, each book provides lesson plans with detailed objectives, background information, step-by-step procedures, reproducible activity sheets, and assessments.



© 2012; ISBN: 978-1-936959-12-9; 171 pages (*Buzz Into Action*)
Stock #: PB319X Members: \$22.36 Non-members: \$27.95



© 2010; ISBN: 978-1-936137-07-7; 132 pages (*Hop Into Action*)
Stock #: PB287X Members: \$19.96 Non-members: \$24.95

Exploring Ecology

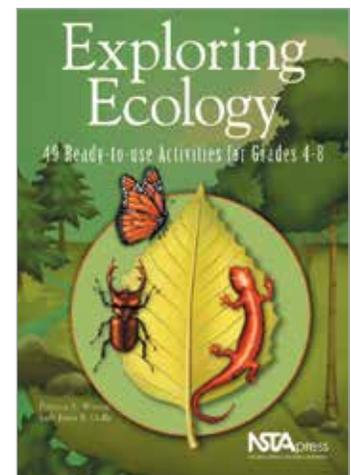
49 Ready-to-Use Activities for Grades 4–8

Patricia A. Warren, with Janet R. Galle

NSTA PRESS, GRADES 4–8

An essential handbook for getting out of the classroom and into the field, where students can get up close and personal with the environment. This collection of hands-on, inquiry-based activities was developed and written by two teachers and can be used for an eight-week unit on ecology or for shorter, one- or two-week units. Designed for easy use, content and activities are organized into four clear sections. Material is also suitable for nature centers and summer camps, and many activities have been adapted for students from first grade through high school.

© 2005; ISBN: 978-0-87355-251-6; 252 pages
Stock #: PB182X Members: \$19.96 Non-members: \$24.95



Fuel for Thought

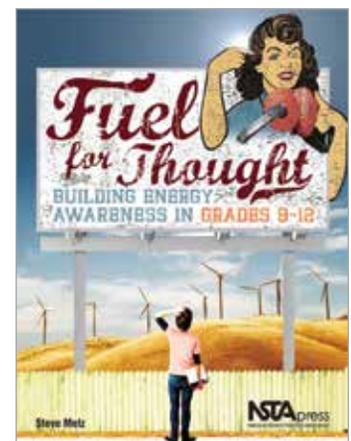
Building Energy Awareness in Grades 9–12

Steven Metz, Editor

An **NSTA PRESS** Journals Collection, **GRADES 9–12**

The concept of energy is central to all science disciplines, seamlessly connecting science, technology, and mathematics. For high school and upper middle school teachers, this compendium comprises inquiry-based activities, lesson plans, and case studies designed to help teach increased awareness of energy, environmental concepts, and related issues.

© 2012; ISBN: 978-1-936137-20-6; 409 pages
Stock #: PB310X Members: \$23.96 Non-members: \$29.95



Science Books & Films/AAAS
Best of 2012!



Stop Faking It!

Finally Understanding Science So You Can Teach It



Bill Robertson—author of the award-winning NSTA Press *Stop Faking It!* series—has had a multifaceted career in science. He’s a former college physics instructor; researcher in cognitive science; and developer of curricula for BSCS, the U.S. Space Foundation, and the Wild Goose Company. He also reviews and edits science materials, presents teacher workshops across the country, and writes a monthly column for NSTA’s member journal *Science and Children*. Robertson earned a master’s degree in physics from the University of Illinois and a PhD in science education from the University of Colorado.

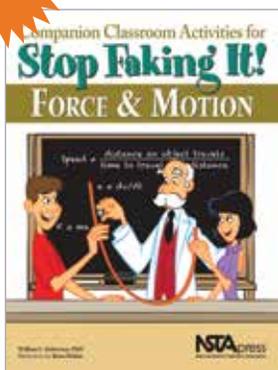
All *Stop Faking It!* books are illustrated by **Brian Diskin**.

Stop Faking It! Series pricing

(for all but the single book immediately below)

Members: **\$19.96**

Non-members: **\$24.95**



Companion Classroom Activities for *Stop Faking It! Force and Motion*

NSTA PRESS, GRADES 5–9

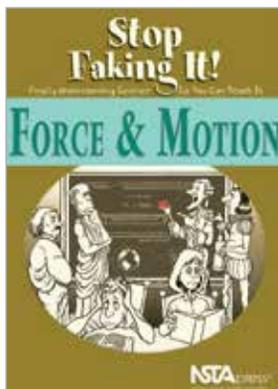
Never has it been so easy for educators to learn to teach physical science with confidence. Both science teachers and parents will find this volume an ideal supplement to author Bill Robertson’s earlier book on force and motion—or a valuable resource on its own. The lessons and easy-to-understand explanations can be used as introductions or refreshers to basic physical science concepts. The hands-on activities cater to busy teachers—providing objectives, materials lists, and step-by-step instructions—and allow students to investigate, discuss, and finally apply physical science concepts to everyday situations. Robertson’s wit and humor are sure to keep students and teachers entertained while they tackle topics such as acceleration, speed, and gravity. Also included are student pages and evaluation questionnaires.

© 2011; ISBN: 978-1-936137-28-2; 212 pages

Stock #: PB295X

Members: \$20.76

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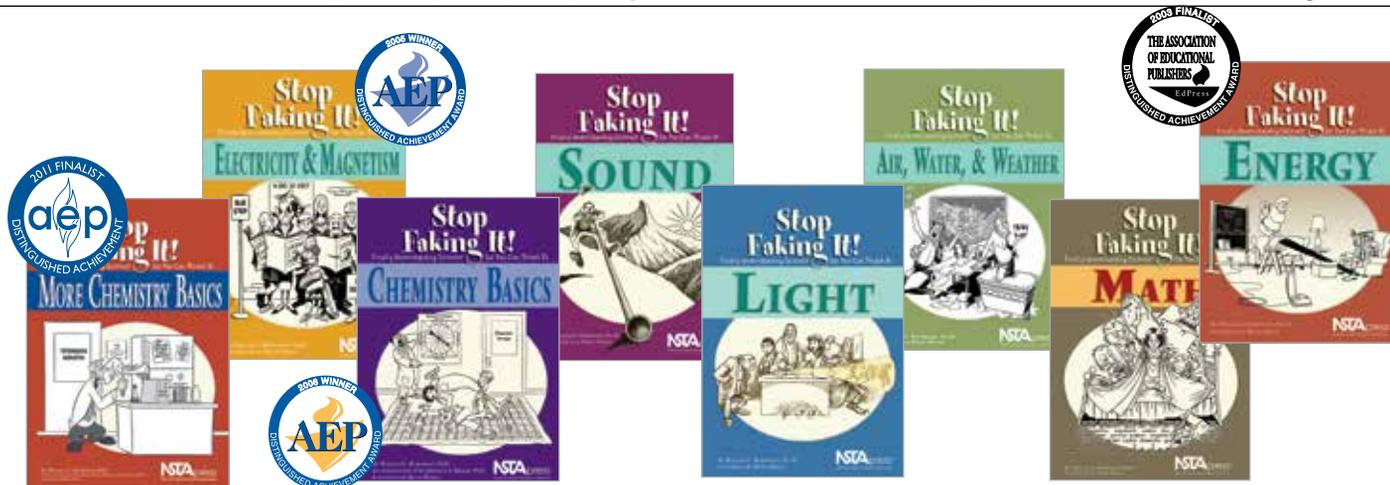
Force & Motion

NSTA PRESS, GRADES 3–8

The *Stop Faking It!* series is perfect for science teachers and even parents wanting to help with homework—anyone who needs a jargon-free way to learn the background for teaching middle school physical science with confidence. Combining easy-to-understand explanations with activities using commonly found equipment, this book covers everything from Newton’s laws to the physics of space travel. The book is as entertaining as it is informative. Best of all, the author understands the needs of adults who want concrete examples, hands-on activities, clear language, diagrams—and yes, a certain amount of empathy.

© 2002; ISBN: 978-0-87355-209-7; 100 pages

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More Chemistry Basics

With Michael S. Kralik and Ann Cutler

NSTA PRESS, GRADES 5–12

Bill Robertson reviews the fundamentals, introduces additional chemistry concepts—such as special reactions and half-lives—and expands on many previously discussed ideas, including electron energy levels and why we can't know exactly what electrons are doing and where they are.

© 2010; ISBN: 978-1-933531-47-2; 153 pages

Stock #: PB169X9

Chemistry Basics

With Michael S. Kralik

NSTA PRESS, GRADES 5–12

With *Chemistry Basics*, educators learn not just that atoms behave in certain ways, but why they do so; not just how to balance chemical equations, but why anyone would want to; and so much more.

© 2007; ISBN: 978-0-87355-239-4; 112 pages

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Air, Water, & Weather

NSTA PRESS, GRADES 3–8

This book covers air pressure, the Coriolis force, density, why hot air doesn't rise by itself, and why heating air doesn't necessarily cause it to expand.

© 2005; ISBN: 978-0-87355-238-7; 134 pages

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Light

NSTA PRESS, GRADES 3–8

This volume uses ray, wave, and particle models of light to explain the basics of reflection and refraction, optical instruments, polarization of light, and interference and diffraction.

© 2003; ISBN: 978-0-87355-215-8; 115 pages

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Math

NSTA PRESS, GRADES 3–8

This book focuses on the reasoning behind the rules, from the basics—including “carrying” numbers, common denominators, cross-multiplying, and pi—to a brief introduction to calculus.

© 2006; ISBN: 978-0-87355-240-0; 190 pages

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Energy

NSTA PRESS, GRADES 3–8

Included are easy-to-grasp explanations of work, kinetic energy, potential energy, and the transformation of energy, plus energy as it relates to simple machines, heat energy, temperature, and heat transfer.

© 2002; ISBN: 978-0-87355-214-1; 114 pages

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Sound

NSTA PRESS, GRADES 3–8

Starting with the cause of sound and how it travels, educators can learn how musical instruments work, how sound waves add and subtract, how the human ear works, and why inhaling helium changes the sound of your voice.

© 2003; ISBN: 978-0-87355-216-5; 107 pages

Stock #: PB169X4

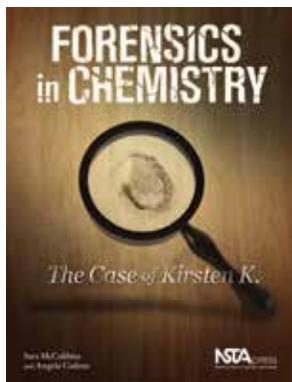
Electricity & Magnetism

NSTA PRESS, GRADES 3–8

This book covers the basics of static electricity, current electricity, and magnetism, and develops a scientific model showing that electricity and magnetism are really the same phenomenon in different forms.

© 2005; ISBN: 978-0-87355-236-3; 161 pages

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Forensics in Chemistry

The Case of Kirsten K.

Sara McCubbins and Angela Codron

NSTA PRESS, GRADES 9–12

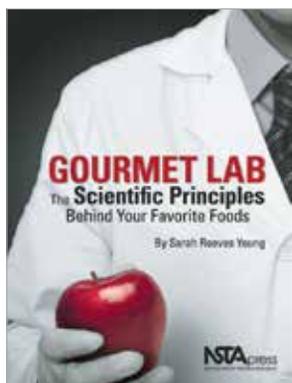
How did Kirsten K.'s body wind up at the bottom of a lake—and what do wedding cake ingredients, soil samples, radioactive decay, bone age, blood stains, bullet matching, and drug lab evidence reveal about whodunit? These mysteries help teachers present standard chemistry topics—kinetic molecular theory, stoichiometry, half-lives, and more—in a unique context. This book uses forensic evidence as the foundation for a series of hands-on, weeklong labs, and the narrative provides memorable lessons in why chemistry concepts are relevant and how they are connected.

© 2012; ISBN: 978-1-936137-36-7; 177 pages

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Gourmet Lab

The Scientific Principles Behind Your Favorite Foods

Sarah Reeves Young

NSTA PRESS, GRADES 6–12

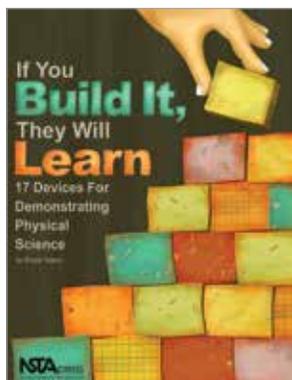
Fifteen hands-on, inquiry-based experiments challenge students to—safely—take on the role of scientist and chef as they boil, bake, and toast their way into a better understanding of science concepts from chemistry, biology, and physics. While cooking foods such as pancakes and butterscotch, students have the opportunity to learn about physical changes in states of matter, acids and bases, biochemistry, and molecular structure.

© 2011; ISBN: 978-1-936137-08-4; 344 pages

Stock #: PB290X

Members: \$27.96

Non-members: \$34.95



If You Build It, They Will Learn

17 Devices for Demonstrating Physical Science

Bruce Yeany

NSTA PRESS, GRADES 6–12

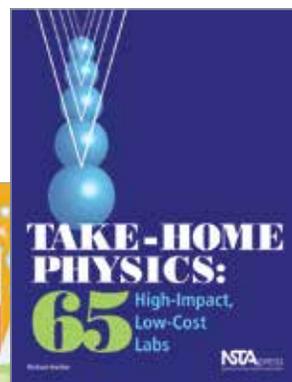
If You Build It, They Will Learn is the perfect do-it-yourself guide for physics teachers who want custom-made demonstration projects to use in their classrooms. Devices like Galileo's Track, Coupled Pendulum, and Gum-Wrapper Thermostat will help teach forces, energy, properties of matter, and much more. Best of all, you don't need an engineering degree to assemble these devices. The book provides such detailed instructions that even novices can handle the necessary tasks and tools.

© 2006; ISBN: 978-0-87355-267-7; 285 pages

Stock #: PB200X

Members: \$7.96

Non-members: \$9.95



Take-Home Physics

65 High-Impact, Low-Cost Labs

Take-Home Chemistry

50 Low-Cost Activities to Extend Classroom Learning

Michael Horton

NSTA PRESS, GRADES 9–12

Excellent resource for high school teachers who want to devote more classroom time to complex concepts while challenging their students with hands-on homework assignments, the *Take-Home* volumes offer dozens of nationally tested, inquiry-based labs for students to perform—safely—at home. This is the “flipped classroom” put into practice.

© 2009; ISBN: 978-1-935155-05-8; 295 pages (Physics)

Stock #: PB240X

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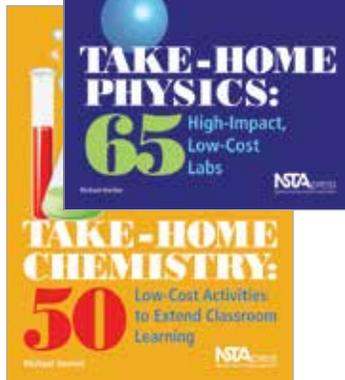
Non-members: \$29.95

© 2011; ISBN: 978-1-936137-39-8; 244 pages (Chemistry)

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Every curious child is irresistibly drawn to questions like these:

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Why did that puddle go away?

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**Captivate
a Child With**

**NSTA Kids**





I Wonder Why

series

Lawrence F. Lowery

These colorful books explore the marvels of everyday phenomena in ways that will captivate beginning readers and satisfy teachers and parents looking for age-appropriate resources about science and nature. Written by an award-winning science educator, *I Wonder Why* books are designed to supplement and extend science programs, and each book focuses on a specific aspect of inquiry or the physical, biological, and Earth sciences. Grown-ups will love the Teacher/Parent Handbook at the end of each volume—practical sources of background and activities relating each topic to lessons in science. Children will love the easy-to-understand and inviting stories.

Each book Members: \$9.56 Non-members: \$11.95



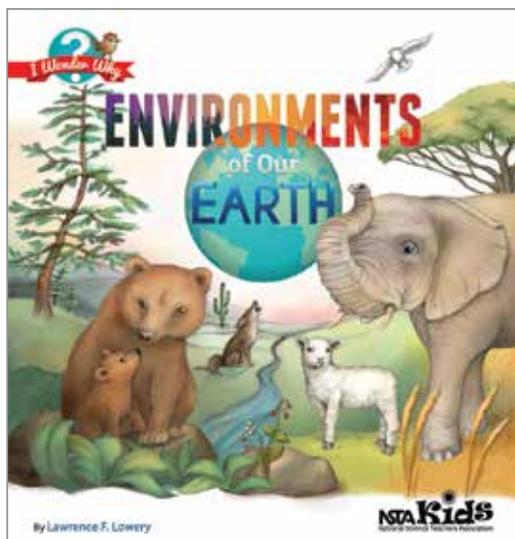
Clouds, Rain, Clouds Again

GRADES K-6

The soothing narrative of this book gently encourages young readers to observe the many kinds of clouds, from thin wisps to puffy air castles to dark thunder ships. Then it raises the natural questions: Where do clouds get water? Why does it rain? Where do puddles go? The answers offer an easy-to-grasp picture of the water cycle while instilling curiosity about weather and science.

© 2013; ISBN: 978-1-938946-12-7; 36 pages

Stock #: PB330X7



Environments of Our Earth

GRADES K-6

Like a world tour between the covers of a book, *Environments of Our Earth* guides curious children through six types of regions that are shaped by rainfall—or the lack of it. The journey starts in dense tropical rainforests and timberlands, travels through grassy savannas and prairies, and ends with dry steppes and deserts. Readers can explore regional differences and rainfall's amazing effect on plants, animals, and people.

© 2013; ISBN: 978-1-938946-15-8; 36 pages

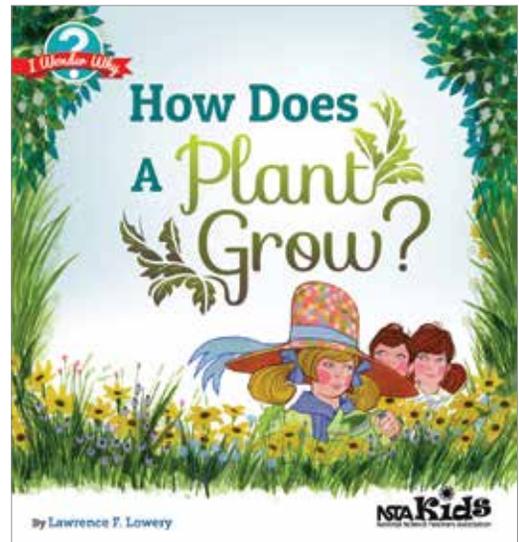
Stock #: PB330X10

How Does a Plant Grow?

GRADES K-6

Young readers are sure to be intrigued by the wide variety of shapes, sizes, and functions in flowers, fruit trees, and all sorts of other flora. *How Does a Plant Grow?* will inspire children to be newly alert to the many wonders of the plant world, from how seeds sprout to why leaves turn to the light to what makes tendrils grow tall.

© 2013; ISBN: 978-1-936959-47-1; 36 pages
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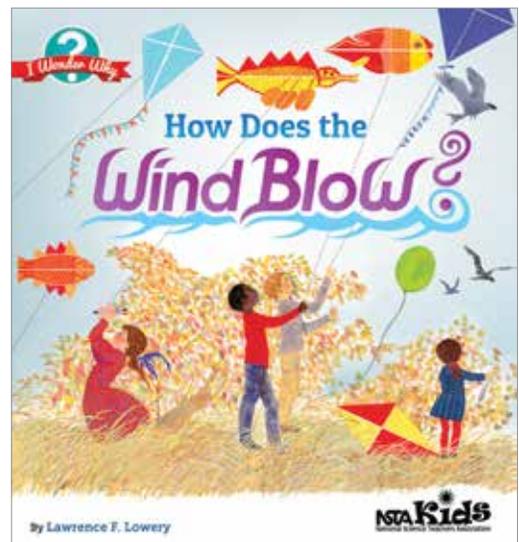


How Does the Wind Blow?

GRADES K-6

In text that flows like poetry, this simple book introduces the different forces of the wind, from gentle breezes that make flags flutter to powerful tornadoes that can hoist a house. As the book progresses, attentive readers discover how wind can be measured—and even indirectly experience the Beaufort wind scale that meteorologists use.

© 2013; ISBN: 978-1-938946-13-4; 36 pages
Stock #: PB330X8 e-Book (PDF) #: PB330X8E
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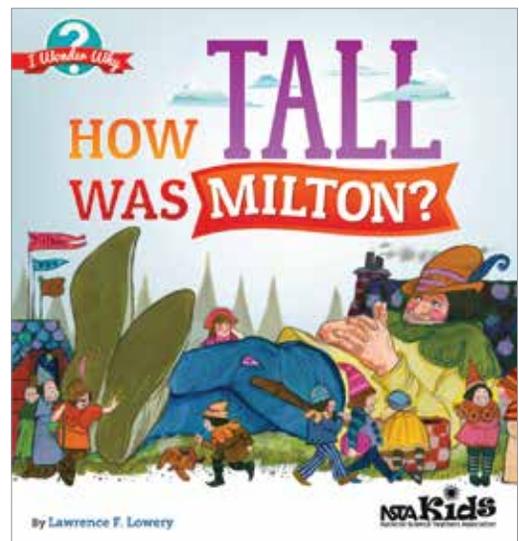


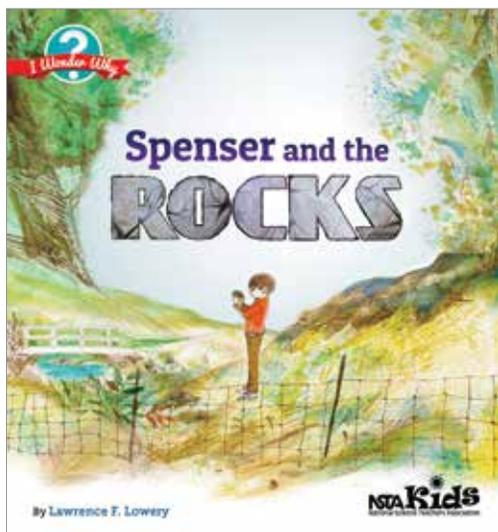
How Tall Was Milton?

GRADES K-6

In this fairy tale, it takes a village to figure out the height of a friendly giant. The townspeople's earnest, yet humorous, attempts to gauge just how big Milton is convey the importance of standard units of measurement. The story even accounts for the real-life origin of such funny-sounding units as feet.

© 2013; ISBN: 978-1-936959-43-3; 36 pages
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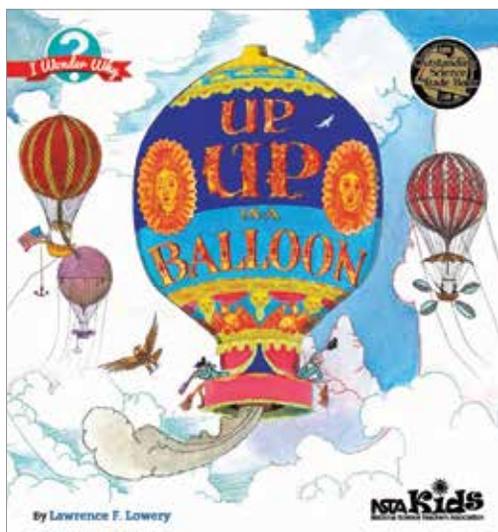
Spenser and the Rocks

GRADES K-6

In this tale of discovery, a curious boy asks himself, Do all rocks contain hidden surprises? The answer is definitely yes! His fascination grows as he sorts and re-sorts his rock collection and asks questions about what he observes. For Spenser—as well as this book's young readers—the experience is an engaging introduction to such scientific procedures as classification and research.

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Up, Up in a Balloon

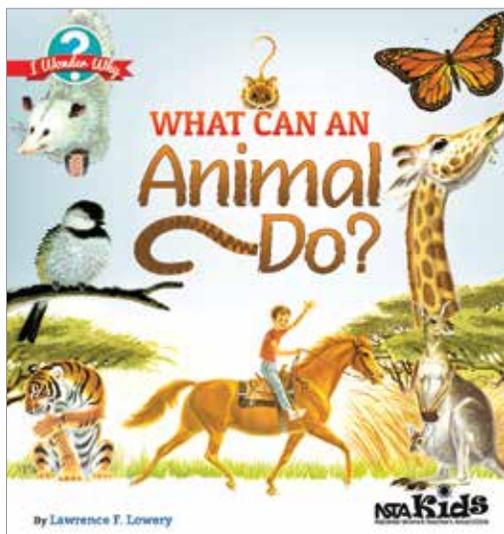
GRADES K-6

Young scientists will get both inspiration and the giggles from this silly but true tale. It tells how the first successful venture into human flight came about because of two French brothers, several paper bags, heated air, leaky cloth, hydrogen gas, a duck, a rooster, and a sheep. In addition to introducing scientific processes and principles of flight, it may prompt budding inventors to try, try again.

© 2013; ISBN: 978-1-938946-14-1; 36 pages

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Named to the 2013 list of
Outstanding Science Trade Books



What Can an Animal Do?

GRADES K-6

What can an animal do? All kinds of things! This book encourages children to notice the characteristics and behaviors of a world of different animals: from gnawing, swimming beavers to spinning, climbing spiders to hopping, baby-toting kangaroos. *What Can an Animal Do?* is a lively introduction to observing, comparing, and describing—all things that budding scientists can do, too.

© 2013; ISBN: 978-1-936959-45-7; 36 pages

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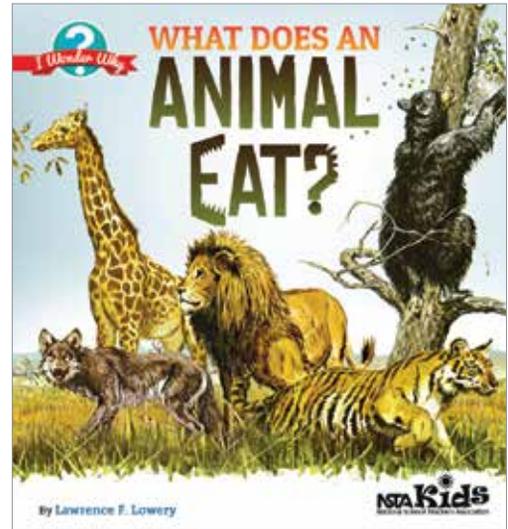
What Does an Animal Eat?

GRADES K-6

Kids who want to know all about animals will find this book fascinating. It offers insights into two special aspects of hungry animals: how their teeth and beaks offer clues to what they eat and the food chain's role in helping to make sure there's enough for all. Illustrated with detailed drawings, the book's simple explanations lay the foundation for a deeper understanding of animal adaptation and the need for human help to protect the food chain.

© 2013; ISBN: 978-1-936959-46-4; 36 pages

Stock #: PB330X1



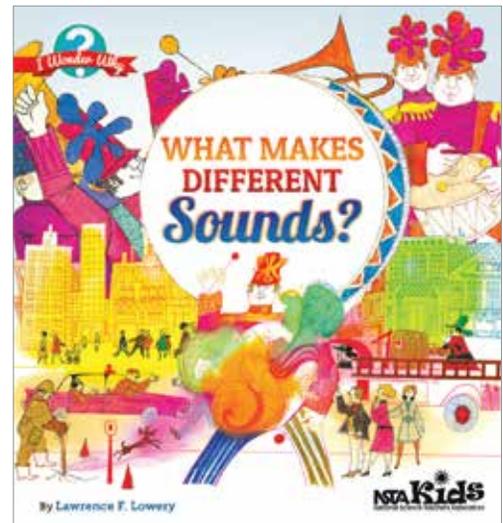
What Makes Different Sounds?

GRADES K-6

On their walk home from school, twins Jane and Jim explore why sounds can be startling (like sirens), soothing (like certain music), or mysterious (like eerie creaking in an empty house). Along the way, readers get an introduction to the roles that vibration, pitch, and volume play in how rustles, rumbles, and rat-a-tat-tats are made and transferred to our ears.

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About the Author

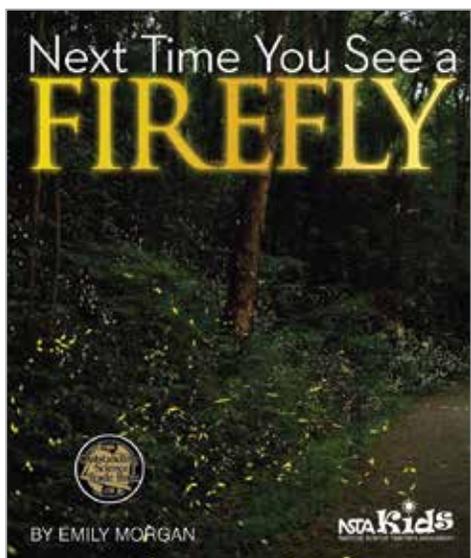
Lawrence F. Lowery taught in the Oakland, California, public schools before becoming a professor of science education at the University of California, Berkeley. He has more than 40 years' experience creating science activities and programs, developing curricula, and writing articles and books, including NSTA Press's recent publication *The Everyday Science Sourcebook*.

Next Time You See series

Emily Morgan

Awaken a sense of wonder in a child with the *Next Time You See* series. Rather than providing science facts to memorize, the engaging text and eye-catching photography inspire elementary-age children to experience the enchantment of everyday phenomena in the natural world. Free supplementary activities are available on the NSTA website for teachers who want to go one step further. Especially designed to be experienced with an adult—whether a parent, teacher, or friend—the *Next Time You See* books serve as a reminder that you don't have to look far to find something remarkable in nature.

Each book Members: \$10.36 Non-members: \$12.95



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Next Time You See a Firefly

GRADES K-6

Share this book with a child and together you'll see twinkling fireflies with new eyes. It explains why fireflies flash and how they live secret lives underground before coming out to fill the evening with their glimmers of light. You'll also discover why, if you catch a firefly, you must let it go: Fireflies have a lot to do!

© 2013; ISBN: 978-1-936959-18-1; 32 pages
Stock #: PB329X3



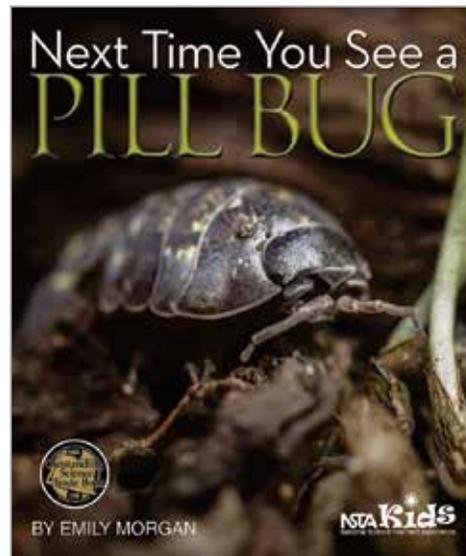
Next Time You See a Pill Bug

GRADES K-6

If curious children look closely, just under a nearby rock, they'll spot a roly-poly pill bug. This book invites children and adults to gently pick it up and watch as it rolls into a ball and unrolls to take a walk. The better you get to know this tiny creature that's a cousin to lobsters and crabs, sheds its crusty skin, and tickles your hand with its 14 (count 'em!) wiggly legs, the more your fascination will grow.

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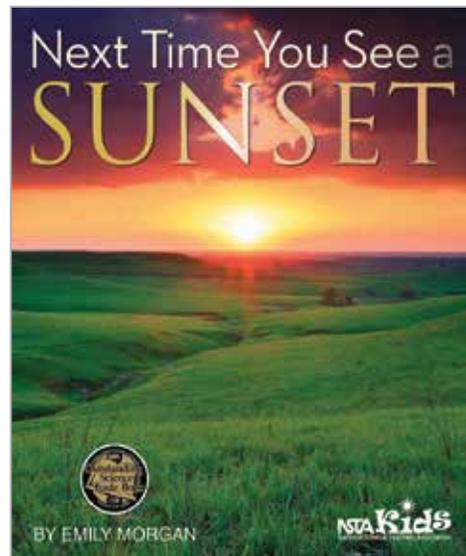
Next Time You See a Sunset

GRADES K-6

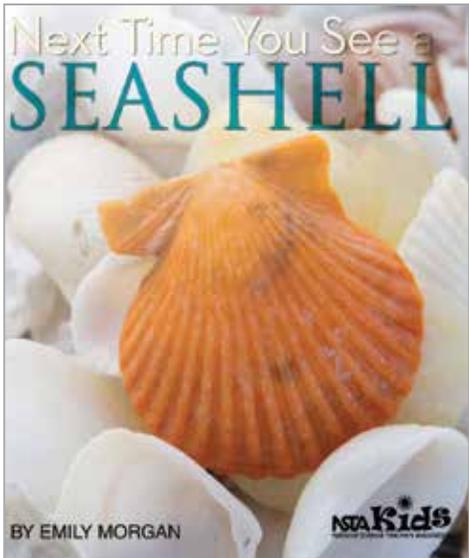
"Next time you see a sunset, stop and sit down for a while." This book's tempting opening line invites children and adults to take in a daily phenomenon with fresh eyes. Together they can learn to appreciate the spinning of the Earth, the progress of day into night, and the reasons for the spectacular colors and shadows that accompany so many sunrises and sunsets.

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Next Time You See a Seashell

GRADES K-6

This book tells the amazing story behind seashells: how they are grown by mollusks, used for protection and camouflage, and full of clues about all they've been through. Children are naturally intrigued by seashells and will find them even more fascinating when they discover that these beautiful objects come from slimy, snailly creatures.

© 2013; ISBN: 978-1-936959-15-0; 32 pages

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About the Author

Emily Morgan is an author-educator who knows how to connect with children both intellectually and emotionally. A former elementary and middle school teacher, she coauthors the *Picture-Perfect Science* series from NSTA Press and the "Teaching Through Trade Books" column in *Science and Children*, NSTA's elementary-level journal.

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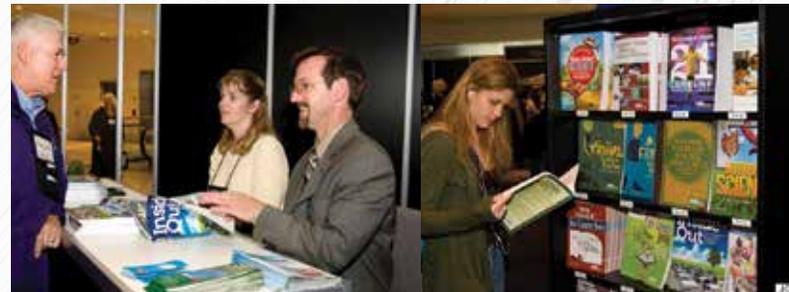
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