Fall 2019

NSTA RECOMMENDS

Professional Resources for Science Educators

National Science Teaching Association

CONTENTS

Prices and availability are subject to change without notice.

What NSTA Press Readers Love About Teaching Science!

"I love that teaching science requires students to critically think and come up with their own interpretations. I learn as much from my students as they learn from me."—Thad K.

"The excitement in the students when they discover the unexpected and want to know more!"—Deb A.

"I love seeing my students wanting to know more!" —Sonya J.

"Being able to get my hands dirty with kids and study real-world topics"—Sydney Z.

"Teaching science for me is a passion. I love wondering and asking questions. Passing this passion on to my students is both fun and challenging! There is absolutely never a dull moment."—Christine V.

"Students' never-ending questions" —Geneva A.

"Nothing makes my day better than watching a student have an aha moment."—Laura M.

"I could be teaching a future scientist who just might solve one of the problems facing us today."—Ruth Z.

"Being hands-on and teaching problem-solving skills"—Sarah P.

"I love my students and their passion for chemistry. To me, nothing is more invigorating than hearing them engage each other in making sense of what they are learning."—Sarah E.

BESTSELLERS at a GLANCE

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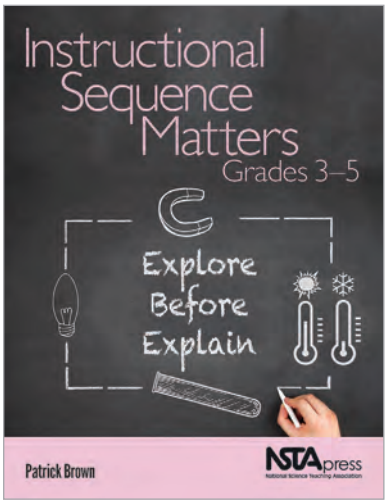
National Science Teaching Association

Instructional Sequence Matters, Grades 3–5

Explore Before Explain

Patrick Brown | NSTA PRESS, GRADES 3–5

AVAILABLE OCTOBER 2019



Instructional sequence definitely *does* matter when it comes to helping children in grades 3 to 5 learn science. That's why this book focuses on showing you how to do two things: (1) make simple shifts in the way you arrange and combine activities and (2) put the *Next Generation Science Standards* (*NGSS*) into practice. Like its popular counterpart for grades 6–8 (p. 35), the book gives you a complete self-guided tour to becoming an "explore-before-explain" teacher. When you adopt this teaching mindset, you'll help your students construct accurate knowledge firsthand—an important part of science learning even for elementary-age children.

Instructional Sequence Matters is grounded in two research-based approaches: POE (Predict, Observe, and Explain) and 5E (Engage, Explore, Explain, Elaborate, and Evaluate). Author Patrick Brown starts by describing why the order in which you structure your lessons is so critical. Then you'll learn how to plan and design these instructional sequences yourself. Ready-to-use lessons will help you turn theory into action when you're teaching about heat and temperature, magnetism, electric circuits, chemical changes, ecosystems, and Earth processes. Detailed examples show how specific aspects of all three dimensions of the *NGSS* can translate in your classroom. Reflection questions throughout the book challenge you to embrace and adapt the new approaches. "Not only is *Instructional Sequence Matters* a delightful read, but it is also practical and helpful," Rodger W. Bybee, author of *The BSCS 5E Instructional Model*, writes in the foreword. "What more could science teachers ask for?"

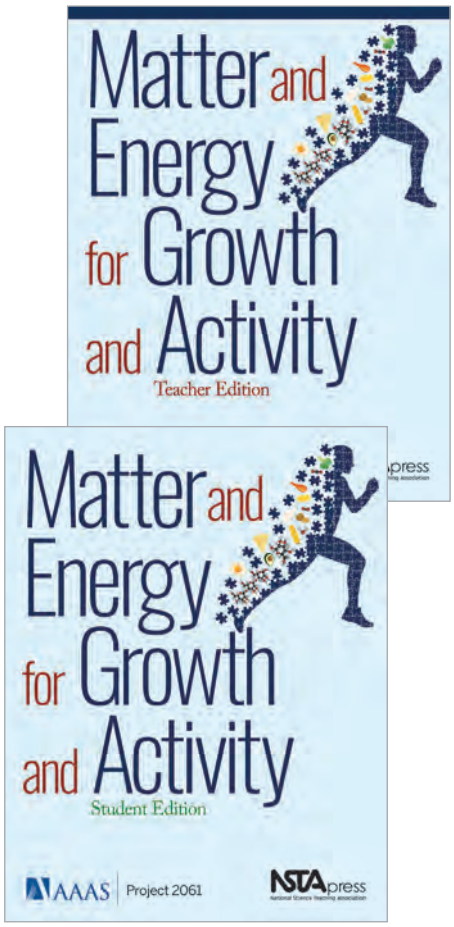
© 2020; ISBN: 978-1-68140-658-9; 136 pages

#: PB438X2	Members: **$20.76**	Non-members: **$25.95**
E-book #: **PKEB438X2**	Members: **$15.57**	Non-members: **$19.46**
Book/E-book Set #: **PKE438X2**	Members: **$24.91**	Non-members: **$31.14**

Matter and Energy for Growth and Activity

AAAS/Project 2061 | NSTA PRESS, GRADES 9–12

AVAILABLE OCTOBER 2019



How do our bodies get the "stuff" we need to repair a broken leg? Where do we get the energy—even while we sleep—to keep us alive and functioning? *Matter and Energy for Growth and Activity* helps your high school students explore questions like these while learning essential ideas about food, human body systems, matter and energy changes, and chemical reactions. The book provides 14 lessons that were developed by a team of scientists and science educators and then tested in classrooms. Building on the middle school unit *Toward High School Biology* (p. 46), *Matter and Energy for Growth and Activity* helps students deepen their understanding of changes in plants and animals and the role of chemical reactions in the growth, repair, and activity of living organisms.

Matter and Energy is teacher-friendly and designed to engage students in a rich variety of phenomena. It integrates all three dimensions of the *NGSS*. It targets important ideas in both physical and biological systems while prompting students to build their skills in computation and data interpretation. And it comes in a Student Edition as well as a Teacher Edition, which shows sample student answers and explains the design rationale of each activity. The detailed guidance for teachers is complemented by online resources, including interactive media, videos, and handouts.

Matter and Energy for Growth and Activity, Teacher Edition

© 2019; 978-1-68140-685-5; 420 pages

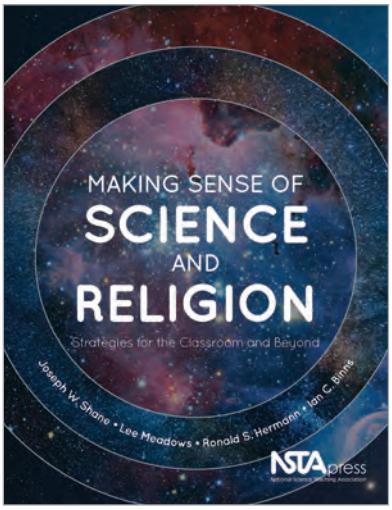
#: **PB448XT**	Members: **$35.96**	Non-members: **$44.95**
E-book #: **PKEB448XT**	Members: **$26.97**	Non-members: **$33.71**
Book/E-book Set #: **PKE448XT**	Members: **$43.15**	Non-members: **$53.94**

Matter and Energy for Growth and Activity, Student Edition

© 2019; 978-1-68140-686-2; 200 pages

#: **PB448XS**	Members: **$15.96**	Non-members: **$19.95**
E-book #: **PKEB448XS**	Members: **$11.97**	Non-members: **$14.96**
Book/E-book Set #: **PKE448XS**	Members: **$19.15**	Non-members: **$23.94**

AVAILABLE OCTOBER 2019



Making Sense of Science and Religion

Strategies for the Classroom and Beyond

Joseph W. Shane, Lee Meadows, Ronald S. Hermann, and Ian C. Binns | NSTA PRESS, GRADES K–12

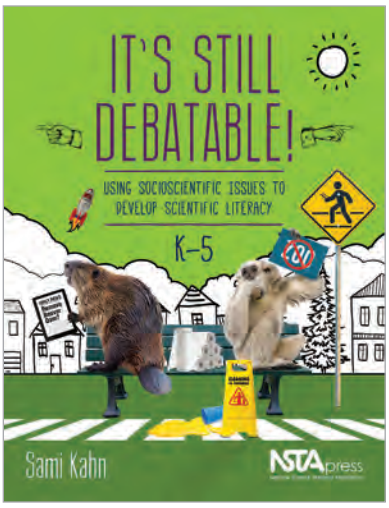
It's inevitable: If your lessons deal with evolution, genetics, the origin of the universe, or climate change, some students are bound to question whether they can reconcile what you teach with what they believe about religion. *Making Sense of Science and Religion* is the book that will help you anticipate and respond to their questions—and help students learn science while maintaining their religious beliefs. Understanding that science and religion can co-exist can also make students more willing to learn, regardless of messages to the contrary that they may hear outside of your classroom.

This book is divided into three parts: (1) some historical and cultural background as well as a framework for addressing science-religion issues in a legal, constitutional manner; (2) guidance on teaching specific scientific concepts at every grade level; and (3) advice for engaging families, administrators, school boards, policy makers, and faith communities. The book's authors are all personally and professionally invested in the subject. They are a mix of K–12 teachers, college professors, and experts from organizations such as the American Association for the Advancement of Science and the Smithsonian National Museum of Natural History. As the preface notes, their hope is that you'll find "the concise yet comprehensive nature of this book useful to your everyday work and to your greater understanding of science and religion."

© 2020; ISBN: 978-1-68140-576-6; 217 pages

#: PB447X	Members: **$20.76**	Non-members: **$25.95**
E-book #: **PKEB447X**	Members: **$15.57**	Non-members: **$19.46**
Book/E-book Set #: **PKE447X**	Members: **$24.91**	Non-members: **$31.14**

AVAILABLE SEPTEMBER 2019



It's Still Debatable!

Using Socioscientific Issues to Develop Scientific Literacy, K–5

Sami Kahn | NSTA PRESS, GRADES K–5

Is football too dangerous for kids? Do we need zoos? Should distracted walking be illegal? These are the types of real-world questions that young scientists can explore with *It's Still Debatable!* The book uses science-related societal issues, or socioscientific issues, to help your K–5 students develop scientific literacy as you encourage them to become informed citizens. A research-based framework is the basis for 14 classroom-tested lesson plans that support the *Next Generation Science Standards*, link to the *Common Core State Standards*, *National Curriculum Standards for Social Studies*, and *C3 Framework*, and are developmentally appropriate for diverse elementary classrooms. The book also includes a chapter especially for use in methods courses and professional development programs.

Like *It's Debatable!* its counterpart for grades K–12 (see p. 36), this new book is practical and content-rich. It engages students through hands-on investigations, research, debates, role-playing, and discussions. Because the book is specifically for elementary grades, the author was sensitive to your need for teach-ready resources that integrate science into your packed school days. You get clear and accessible background information, practical guidance on how to use the lessons, and developmentally appropriate assessments and handouts. The goal is to enable you to make science real for students even as you empower them to become agents of change in their schools and communities.

© 2019; ISBN: 978-1-68140-629-9; 525 pages

#: **PB347X2**	Members: **$34.36**	Non-members: **$42.95**
E-book #: **PKEB347X2**	Members: **$25.77**	Non-members: **$32.21**
Book/E-book Set #: **PKE347X2**	Members: **$41.23**	Non-members: **$51.54**

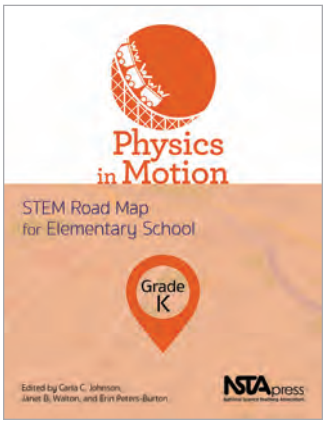
The STEM Road Map Curriculum Series

Carla C. Johnson, Janet B. Walton, and Erin Peters-Burton, Series Editors | NSTA PRESS, GRADES K–12

Book	E-book	Book/E-book
Members: **$23.96**	Members: **$17.97**	Members: **$28.75**
Non-members: **$29.95**	Non-members: **$22.46**	Non-members: **$35.94**

Physics in Motion, Grade K

AVAILABLE NOVEMBER 2019



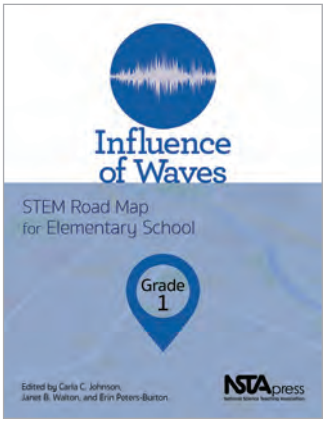
STEM Road Map for Elementary School

What if you could challenge your kindergartners to create a mini roller coaster? *Physics in Motion* turns a fun building project into an opportunity to investigate concepts such as energy, gravity, friction, and speed. Students will use the engineering design process while working collaboratively to design, build, and test marble track roller coasters. They will measure, compare, and evaluate numbers related to their project. They'll use technology to do research and demonstrate their awareness of motion-related concepts. They'll even craft a plan for making the roller coaster part of a theme park and then create a flyer to advertise it. The module is an entry point for students to explore the physics of motion through play and then decide which roller coaster design is best.

© 2020; ISBN: 978-1-68140-459-2; 202 pages
#: **PB425X16** E-book #: **PKEB425X16** Book/E-book Set #: **PKE425X16**

Influence of Waves, Grade 1

AVAILABLE OCTOBER 2019



STEM Road Map for Elementary School

What if you could challenge your first graders to create instruments they can play in their own "Show Me the Waves" musical show? *Influence of Waves* introduces children to the concept of waves as disturbances that travel through space and substances to transfer energy. With this module, your students will conduct a variety of investigations using science as well as English language arts, mathematics, and social studies. Along the way, they'll discover that different types of waves, such as water and sound, come from different sources and travel in various ways. They'll find out that eyes, ears, and skin respond to sound and light. Then they'll finish the module with a bang! By combining their voices and flashlights with guitars and drums they've made themselves, they'll put on a show to demonstrate how to use sound waves and light to communicate and entertain.

© 2020; ISBN: 978-1-68140-504-9; 185 pages
#: **PB425X19** E-book #: **PKEB425X19** Book/E-book Set #: **PKE425X19**

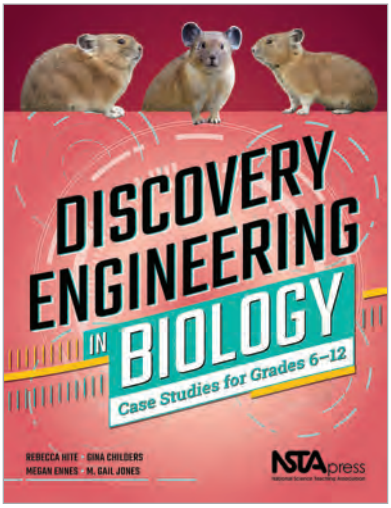
Natural Hazards, Grade 2

STEM Road Map for Elementary School

What if you could challenge your second graders to help communities prepare for disasters ranging from floods and wildfires to earthquakes and hurricanes? With *Natural Hazards*, you can! The goal is for students to learn about the effects—including the economic kind—of natural hazards on people, animals, communities, and the environment. Then they'll consider ways to minimize those threats. Working in teams, your second graders will use science, English language arts, mathematics, social studies, and the engineering design process to create a model of tornado winds, construct models of structures that can withstand earthquakes, find out about weather predictions, and even create their own tall tales related to natural hazards. In the end, the students will produce a plan to keep a community safe if a natural hazard strikes, including a public service announcement about how to be prepared.

© 2019; ISBN: 978-1-68140-486-8; 180 pages
#: **PB425X18** E-book #: **PKEB425X18** Book/E-book Set #: **PKE425X18**

AVAILABLE NOVEMBER 2019



Discovery Engineering in Biology

Case Studies for Grades 6–12

Rebecca Hite, Gina Childers, Megan Ennes, and M. Gail Jones | NSTA PRESS, GRADES 6–12

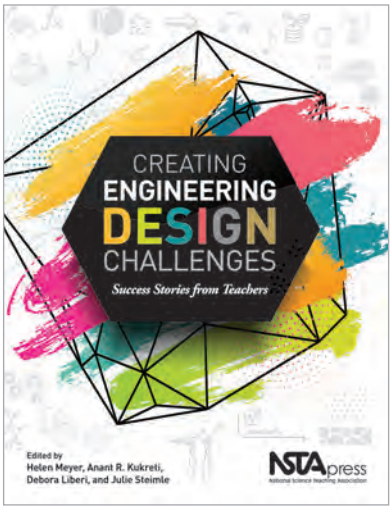
Who knew that small, plant-eating mammals called *pikas* helped scientists find new ways to survive extreme weather events? Your students will learn about amazing scientific advancements like this when you use the 20 lessons in *Discovery Engineering in Biology*. The book is a lively way to blend history, real-world perspectives, 21st-century skills, and engineering into your biology or STEM curriculum.

Like the physical science volume (see p. 11), this book features case studies about observations and accidental discoveries that led to the invention of new products and problem-solving applications. After reading a historical account of an actual innovation, students explore related activities that connect to such topics as molecules and organisms, ecosystems, heredity, and biological evolution. They conduct research, analyze data, and use the engineering design process to develop products or applications of their own. Students are sure to be intrigued by investigations with titles such as "Vindicating Venom: Using Biological Mechanisms to Treat Diseases and Disorders" and "Revealing Repeats: The Accidental Discovery of DNA Fingerprinting."

© 2020; ISBN: 978-1-68140-614-5; 350 pages

#: **PB444X2**	Members: **$31.96**	Non-members: **$39.95**
E-book #: **PKEB444X2**	Members: **$23.97**	Non-members: **$29.96**
Book/E-book Set #: **PKE444X2**	Members: **$38.35**	Non-members: **$47.94**

AVAILABLE NOVEMBER 2019



Creating Engineering Design Challenges

Success Stories From Teachers

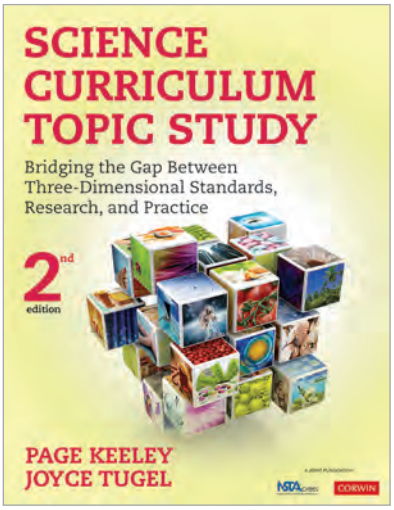
Helen Meyer, Anant R. Kukreti, Debora Liberi, and Julie Steimle, Editors
NSTA PRESS | GRADES 6–12

The 13 units in *Creating Engineering Design Challenges* provide innovative ways to make science and math relevant to middle and high school students through challenge-based learning and the engineering design process. Content areas include biology, chemistry, physical science, and environmental science. Topics range from developing a recipe for cement to implementing geocaching to calculating accurate aim with slingshots and water balloons.

You can be sure the units are classroom-ready because they were contributed by the same teachers who developed, used, and revised them. They provide detailed accounts of their units as well as lesson plans and handouts. The book also offers guidance on fostering professional development to support and grow your school's engineering education practice. Use it to help you change your classroom environment, empower students, and move toward a more student-centered classroom culture that leads to deeper learning.

© 2020; ISBN: 978-1-68140-698-5; 310 pages

#: **PB451X**	Members: **$31.96**	Non-members: **$39.95**
E-book #: **PKEB451X**	Members: **$23.97**	Non-members: **$29.96**
Book/E-book Set #: **PKE451X**	Members: **$38.35**	Non-members: **$47.94**



Science Curriculum Topic Study

Bridging the Gap Between Three-Dimensional Standards, Research, and Practice, Second Edition

Page Keeley and Joyce Tugel | NSTA PRESS AND CORWIN, GRADES K–12

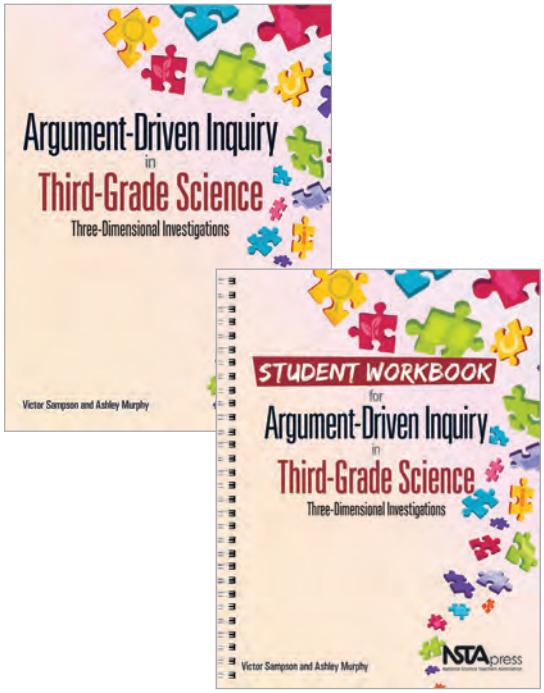
The second edition of this bestseller is newly mapped to the *Framework* and *NGSS* and has been updated with new standards and research-based resources. It will help science educators make the shifts needed to reflect current practices in curriculum, instruction, and assessment. The new edition also has an increased emphasis on STEM, particularly engineering. The methodical study process described in this book will help readers intertwine content, practices, and crosscutting concepts.

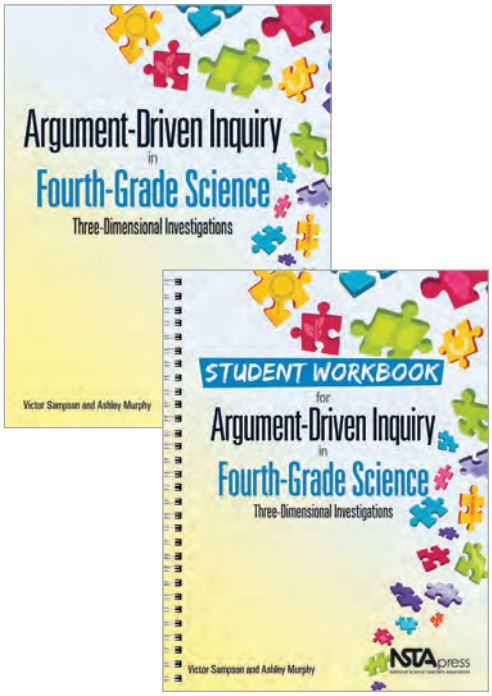
© 2020; ISBN: 978-1-45224-464-8; 320 pages

#: **PA004E2**	Members: **$35.96**	Non-members: **$44.95**

Great news for third- and fourth-grade teachers: Here are the first books of their kind designed specifically to help you make the instructional shift to argument-driven inquiry (ADI). Now you can use this innovative approach to prompt elementary students to use argument to construct, support, and evaluate scientific claims. Like the bestselling ADI books for middle and high school (see pp. 16–17), these volumes are written by veteran teachers who know the importance of gathering instructional materials into one useful resource. Each lesson comes with teacher notes, investigation handouts, and checkout questions.

The investigations help students reach the performance expectations in the *Next Generation Science Standards* and develop the disciplinary-based skills in the *Common Core State Standards* for English language arts and mathematics. The books can also help emerging bilingual students meet the *English Language Proficiency Standards* with their tips for teaching English language learners. You'll see how to emphasize "figuring things out" instead of "learning about things," which will help your students develop the knowledge and skills they need to be proficient in science.





Argument-Driven Inquiry in Third-Grade Science
Three-Dimensional Investigations

Victor Sampson and Ashley Murphy | NSTA PRESS, GRADE 3

The 14 field-tested lessons cover motion and stability, molecules and organisms, heredity, biological evolution, and Earth's systems. Your students will explore questions ranging from why wolves live in groups to how the climate changes as one moves from the equator toward the poles.

© 2019; ISBN: 978-1-68140-517-9; 584 pages

#: **PB349X7**	Members: **$38.36**	Non-members: **$47.95**
E-book #: **PKEB349X7**	Members: **$28.77**	Non-members: **$35.96**
Book/E-book Set #: **PKE349X7**	Members: **$46.03**	Non-members: **$57.54**

Student Workbook for Argument-Driven Inquiry in Third-Grade Science

© 2019; ISBN: 978-1-68140-567-4; 247 pages

#: **PB349X7S**	Members: **$15.96**	Non-members: **$19.95**
E-book #: **PKEB349X7S**	Members: **$11.97**	Non-members: **$14.96**
Book/E-book Set #: **PKE349X7S**	Members: **$19.15**	Non-members: **$23.94**

Argument-Driven Inquiry in Fourth-Grade Science
Three-Dimensional Investigations

Victor Sampson and Ashley Murphy | NSTA PRESS, GRADE 4

The 15 field-tested lessons cover energy, waves and their application in technologies for information transfer, molecules and organisms, and Earth's place in the universe and systems. Your students will explore questions ranging from how you can make an electric car move faster to why big waves block the entrance to some New Zealand harbors.

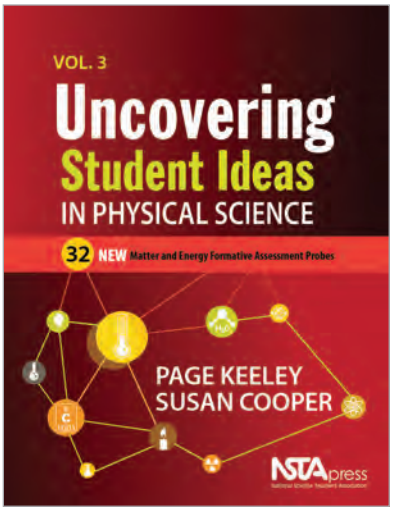
© 2019; ISBN: 978-1-68140-520-9; 677 pages

#: **PB349X8**	Members: **$38.36**	Non-members: **$47.95**
E-book #: **PKEB349X8**	Members: **$28.77**	Non-members: **$35.96**
Book/E-book Set #: **PKE349X8**	Members: **$46.03**	Non-members: **$57.54**

Student Workbook for Argument-Driven Inquiry in Fourth-Grade Science

© 2019; ISBN: 978-1-68140-570-4; 259 pages

#: **PB349X8S**	Members: **$15.96**	Non-members: **$19.95**
E-book #: **PKEB349X8S**	Members: **$11.97**	Non-members: **$14.96**
Book/E-book Set #: **PKE349X8S**	Members: **$19.15**	Non-members: **$23.94**



Uncovering Student Ideas in Physical Science, Volume 3

32 New Matter and Energy Formative Assessment Probes

Page Keeley and Susan Cooper | NSTA PRESS, GRADES 3–12

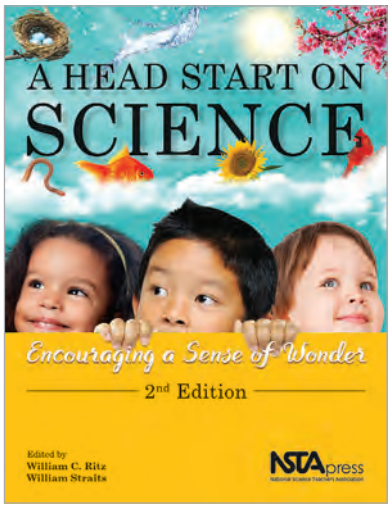
Uncovering Student Ideas in Physical Science, Volume 3 offers 32 new formative assessment probes to help you understand how your students (and even you!) think about matter and energy core ideas. The 11th book in the *Uncovering Student Ideas in Science* series (see pp.18–19), this volume delivers the same teacher-friendly features that have made the series a bestseller among educators at all grade levels. **It also provides all 32 probes in both Spanish and English.**

This new volume is organized into four sections: (1) the concept of matter and particle model of matter; (2) properties of matter; (3) classifying matter, chemical properties, and chemical reactions; and (4) nuclear processes and energy. The probes are short and easy to administer. They'll help you uncover students' existing beliefs about everything from a particle model of matter to ways of describing energy.

Armed with insights into your students' thinking, you can use the teacher materials to make informed instructional decisions. Because the content is explained in clear, everyday language, science novices can improve their own understanding of the content they teach. With *Uncovering Student Ideas in Physical Science, Volume 3*, you'll be ready for the important next step: choosing the instructional path that will work best with your learning goal, your students' preconceptions, and the diverse learners in your classroom.

© 2019; ISBN: 978-1-68140-604-6; 224 pages

#: **PB274X3**	Members: **$30.36**	Non-members: **$37.95**
E-book #: **PKEB274X3**	Members: **$22.17**	Non-members: **$28.46**
Book/E-book Set #: **PKE274X3**	Members: **$36.43**	Non-members: **$45.54**



A Head Start on Science, Second Edition

Encouraging a Sense of Wonder

William C. Ritz and William Straits, Editors | NSTA PRESS, GRADES PREK–2

Imagine what fun it could be for 3- to 7-year-olds to engage in a game of Prism Play or Magnetic Scavenger Hunt or Where Did the Shadows Go? Then imagine how convenient it would be for you if such activities came with the connections, standards, and assessments today's early childhood educators need most. Your dream resource comes to life in this revised and expanded edition of *A Head Start on Science: Encouraging a Sense of Wonder*. It builds on children's innate curiosity through 89 developmentally appropriate, teacher-tested activities in life, Earth, and physical science.

Like *A Head Start on Life Science* (p. 44), this book emphasizes child-centered development of science practices and skills. Children can explore the natural world as they take advantage of lively opportunities for science learning. But here's what sets this book apart: It's an all-in-one resource for caregivers and teachers from preK to grade 2. Each lesson includes a follow-up activity, connections to centers and children's literature, assessment guides, and **bonus activities written in Spanish and English** that let families continue the fun—and the learning—at home. Each activity also supports both the 2015 Head Start Early Learning Outcomes Framework and the *Next Generation Science Standards.*

Whether your young scientists are building bird nests or making bubbles, *A Head Start on Science, Second Edition* will enrich what the editors call "your noble and indispensable work—providing children with opportunities to follow their own curiosity as they joyfully explore the natural world."

© 2019; ISBN: 978-1-68140-639-8; 324 pages

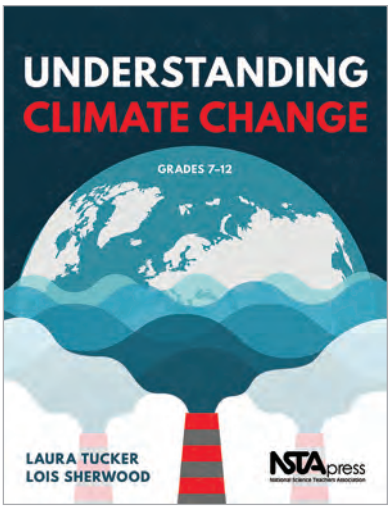
#: **PB208E2**	Members: **$30.36**	Non-members: **$37.95**
E-book #: **PKEB208E2**	Members: **$22.17**	Non-members: **$28.46**
Book/E-book Set #: **PKE208E2**	Members: **$36.43**	Non-members: **$45.54**

SAVE! Buy with *A Head Start on Life Science!*

#: **PKHSOX2** Members: **$57.68** Non-members: **$72.11**

Understanding Climate Change, Grades 7–12

Laura Tucker and Lois Sherwood | NSTA PRESS, GRADES 7–12



Get help teaching one of the hottest topics in science with *Understanding Climate Change, Grades 7–12*. This nine-session module is written to be practical and accessible. It provides both extensive background and step-by-step instructions for using three-dimensional methods to explore this complex subject. It fits easily into a middle or high school curriculum while supporting the *Next Generation Science Standards*. The material can be covered in just three or four weeks or used in part to supplement your existing curriculum. Best of all, your students will find the module truly engaging. Rather than spoon-feeding them information, the lessons spur them to investigate evidence of climate change and global warming for themselves.

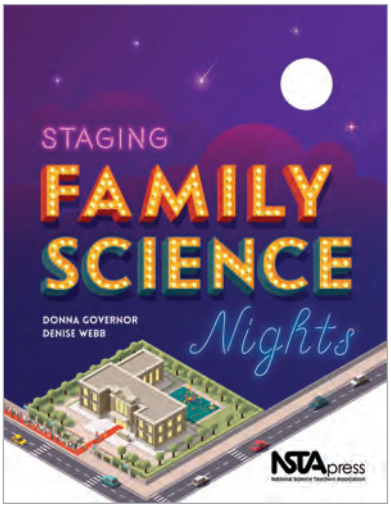
Understanding Climate Change is designed with the Learning Cycle and the BSCS 5E Instructional Model in mind. The module starts with an in-depth look at sources of CO_2 (carbon dioxide) and the greenhouse effect. It then addresses misconceptions about climate change; in fact, an entire session is devoted to evaluating information to see if it's accurate, verifiable, complete, and from a reputable source. Then the lessons prompt students to conduct their own scientific research, discuss ripple effects, and examine solutions. The authors deliberately structured this module to build a conceptual foundation without risking information overload. Your students will come away prepared to analyze what they hear about climate change outside of class. They'll also be ready to use critical thinking skills to draw their own conclusions about what should be done and to come up with ways they can take action to mitigate the effects of climate change in their homes, schools, and communities.

© 2019; ISBN: 978-1-68140-632-9; 145 pages

#: PB445X	Members: **$25.56**	Non-members: **$31.95**
E-book #: **PKEB445X**	Members: **$19.17**	Non-members: **$23.96**
Book/E-book Set #: **PKE445X**	Members: **$30.67**	Non-members: **$38.34**

Staging Family Science Nights

Donna Governor and Denise Webb | NSTA PRESS, GRADES K–12



Get rave reviews for science by putting this book's step-by-step plans to work. *Staging Family Science Nights* is your playbook for creating an informal learning environment that will generate enthusiasm and enjoyment of science among the entire family. The first section of the book—"Producing the Event"—devotes eight chapters to planning, recruiting volunteers (including students), setting up, last-minute troubleshooting, and injecting pizzazz. The four chapters in the second section—"On the Stage"—offer guidance and templates for activities at the novice, intermediate, and advanced levels. Activities include "Balancing Bugs," "Bubble Olympics," and "Creating Color Slime."

The book is designed to be a crowd-pleaser, whether you're looking for new ideas for an established science night or planning your first one. It's useful for teachers at all levels as well as homeschoolers and informal education programs. Best of all, the authors, both veteran educators, are dedicated to making sure your science night showcases quality science content and practices. Based on their years of personal experience, they write, "A successful Family Science Night is a perfect coming together of informal science learning, student leadership, community support, and schoolwide excitement." Get this book and get ready to take a bow!

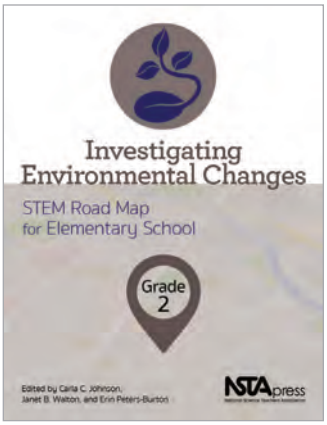
© 2019; ISBN: 978-1-68140-623-7; 204 pages

#: PB443X	Members: **$25.56**	Non-members: **$31.95**
E-book #: **PKEB443X**	Members: **$19.17**	Non-members: **$23.96**
Book/E-book Set #: **PKE443X**	Members: **$30.67**	Non-members: **$38.34**

The STEM Road Map Curriculum Series

Carla C. Johnson, Janet B. Walton, and Erin Peters-Burton, Series Editors | NSTA PRESS, GRADES K–12

Book	E-book	Book/E-book
Members: **$23.96**	Members: **$17.97**	Members: **$28.75**
Non-members: **$29.95**	Non-members: **$22.46**	Non-members: **$35.94**



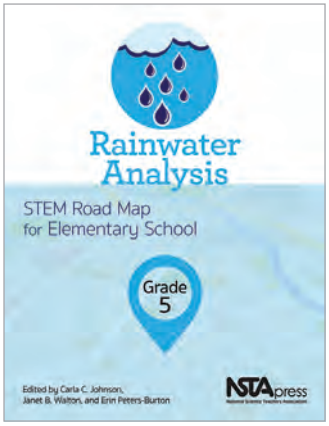
Investigating Environmental Changes, Grade 2

STEM Road Map for Elementary School

What if you could challenge your second graders to build an outdoor STEM classroom—complete with a butterfly garden, birdbath, and sundial? *Investigating Environmental Changes* provides young children with a STEM context in which to explore how plant and animal life cycles coincide with the Earth's movement around the Sun. To develop a proposal and data collection plan for their outdoor classroom, students will draw on life, Earth, and environmental sciences; the engineering design process; mathematics; and English language arts. In addition, they will make connections among local weather patterns, the seasons, and plant life cycles. They will also learn about recycling, including sorting and tracking recycled materials.

© 2019; ISBN: 978-1-68140-534-6; 163 pages

#: **PB425X12** E-book #: **PKEB425X12** Book/E-book Set #: **PKE425X12**



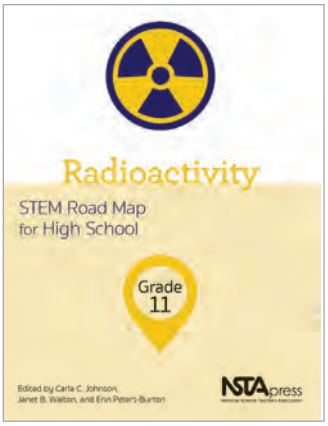
Rainwater Analysis, Grade 5

STEM Road Map for Elementary School

What if you could challenge your fifth graders to design rainwater recycling and delivery systems to provide water for a fictional community garden? With *Rainwater Analysis,* students can use their own school building and grounds as a design lab. This interdisciplinary module makes the connection between Earth's spheres, rainfall analysis, irrigation, and mathematical modeling. Students draw on Earth and environmental science and the engineering design process to complete activities such as creating a rain gauge, learning about volume calculations, and analyzing data to determine the best location for a water collection system. Students will also use English language arts to present a proposal for a rainwater system, formulate a message about watershed conservation, and create an ad campaign to share with their community.

© 2019; ISBN: 978-1-68140-449-3; 244 pages

#: **PB425X9** E-book #: **PKEB425X9** Book/E-book Set #: **PKE425X9**



Radioactivity, Grade 11

STEM Road Map for High School

What if you could challenge your 11th graders to figure out the best response to a partial meltdown at a nuclear reactor in fictional Gammatown, USA? *Radioactivity* helps high school students understand the debate over the safety and efficiency of using nuclear power to meet the country's energy demands. Teams of students will apply what they learn about the science and history of nuclear energy to convey the views of particular stakeholder groups. They will explore how radioactive decay, nuclear fission, and nuclear fusion work. They will model nuclear fission, create computer-generated simulations, and perform mathematical computations. Mathematics skills will help them calculate the energy yield of an individual nuclear event (decay, fission, and fusion) and use exponential functions to represent chain reactions. Finally, they'll make a presentation and adopt the roles of stakeholders grappling with the aftermath of the accident.

© 2019; ISBN: 978-1-68140-474-5; 185 pages

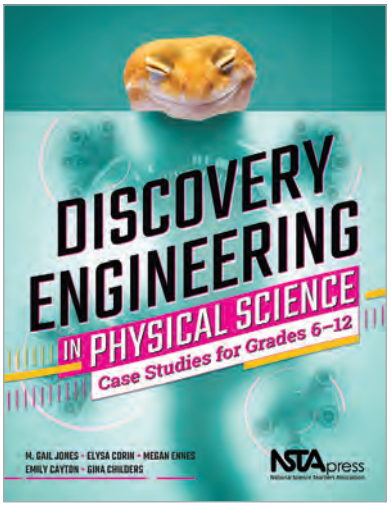
#: **PB425X8** E-book #: **PKEB425X8** Book/E-book Set #: **PKE425X8**

Discovery Engineering in Physical Science

Case Studies for Grades 6–12

M. Gail Jones, Elysa Corin, Megan Ennes, Emily Cayton, and Gina Childers

NSTA PRESS, GRADES 6–12



Who knew that gecko feet inspired scientists to develop a stickier adhesive or that cockleburs in dog fur led to the invention of Velcro? *Discovery Engineering in Physical Science* uses these and other surprising cases of innovations sparked by accidental observations to teach about the amazing role of serendipity in science. The case studies in this new resource are a lively way to integrate engineering into your physical science classes. Middle and high school students will learn to understand fundamental science processes while trying out their own ideas for unexpected applications.

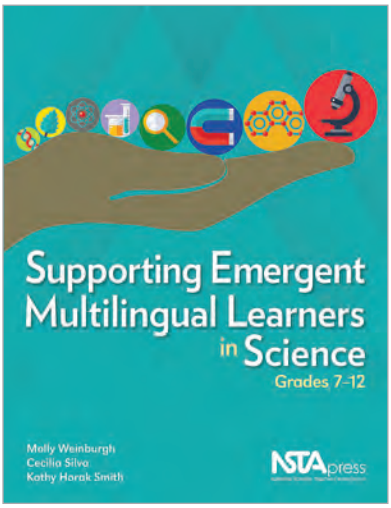
Each of the book's 22 investigations starts with a real case of accidental inspiration that students explore through primary documents or historical accounts. Then it's time for the students to become the innovators. They're tasked to do research, examine data and physical materials, and use their own creativity to design new products or problem-solving applications. The investigations are easy to implement and flexible enough to use in part or as a whole. Students will learn one or more science concepts as they're exposed to background on the unpredictable nature of science. And they'll be intrigued by investigations with titles such as "By the Teeth of Your Skin: Shark Skin and Bacteria" and "From Ship to Staircase: The History of the Slinky." Try this book and see what happens! The result may be more engaged students—and more great ideas about how gecko feet can inspire solutions to everyday problems.

© 2019; ISBN: 978-1-68140-617-6; 392 pages

#: **PB444X1**	Members: **$31.96**	Non-members: **$39.95**
E-book #: **PKEB444X1**	Members: **$23.97**	Non-members: **$29.96**
Book/E-book Set #: **PKE444X1**	Members: **$38.35**	Non-members: **$47.94**

Supporting Emergent Multilingual Learners in Science, Grades 7–12

Molly Weinburgh, Cecilia Silva, and Kathy Horak Smith | NSTA PRESS, GRADES 7–12



Here's the resource you need to combine middle and high school science content with down-to-earth help for emergent multilingual learners—students learning science as well as English. Based on solid research findings, this book shows you how to put into practice the 5R Instructional Model: Replace, Reveal, Repeat, Reposition, and Reload. The model provides a framework for creating instructional strategies that offer authentic language-learning opportunities within your inquiry-based science classroom.

Supporting Emergent Multilingual Learners in Science starts with useful context about the need for a special approach to integrating science and language. Then it moves from theory to practice by focusing on each of the five *R*s and showing how they play out in particular scenarios. Finally, a chapter called "Voices From Teachers" lets you learn from colleagues who've used the 5R model as a tool to develop science lessons in actual classrooms. The authors of *Supporting Emergent Multilingual Learners in Science* have diverse backgrounds in science, mathematics, and bilingual education. Drawing on the overlap they've discovered among these areas, they show how you can reduce conflicts and enhance connections between inquiry teaching and language instruction.

© 2019; ISBN: 978-1-68140-481-3; 118 pages

#: **PB446X**	Members: **$25.56**	Non-members: **$31.95**
E-book #: **PKEB446X**	Members: **$19.17**	Non-members: **$23.96**
Book/E-book Set #: **PKE446X**	Members: **$30.67**	Non-members: **$38.34**

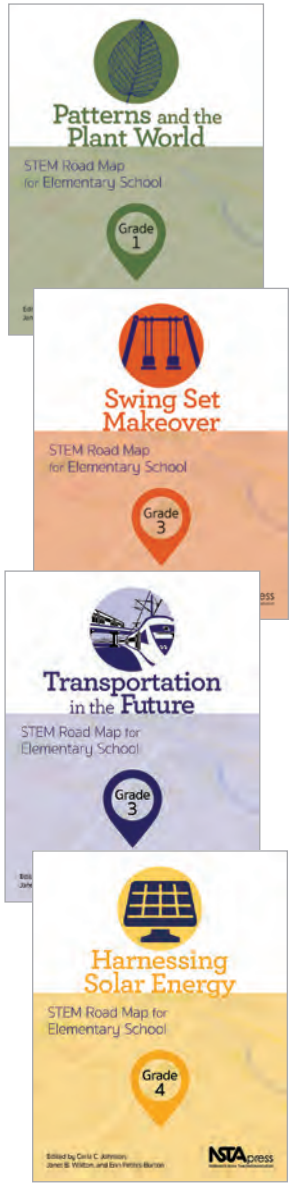
The STEM Road Map

Carla C. Johnson, Janet B. Walton, and Erin Peters-Burton, Series Editors | NSTA PRESS, GRADES K–12

Map out a journey that will steer your students toward authentic problem solving as you ground them in integrated STEM disciplines. This K–12 curriculum series is anchored in the *Next Generation Science Standards*, the *Common Core State Standards*, and the Framework for 21st Century Learning. It was developed to meet the growing need to infuse real-world learning into classrooms. Each book is an in-depth module that uses project- and problem-based learning. Your students are presented with a challenge. Then, they apply what they learn using science, social studies, English language arts, and mathematics. Engaging and flexible, each volume can be used as a whole unit or in part to meet the needs of districts, schools, and teachers who are charting a course toward an integrated STEM approach.

See newest volumes on pages 5 and 10!

Book	E-book	Book/E-book
Members: **$23.96**	Members: **$17.97**	Members: **$28.75**
Non-members: **$29.95**	Non-members: **$22.46**	Non-members: **$35.94**



Patterns and the Plant World, Grade 1
STEM Road Map for Elementary School

Students are challenged to relate changes in seasonal weather patterns to changes in the plant world, with an emphasis on observation, data collection, measurement, and presenting numerical data in graphic form.

© 2018; ISBN: 978-1-68140-507-0; 148 pages

#: **PB425X11** E-book #: **PKEB425X11** Book/E-book Set #: **PKE425X11**

Swing Set Makeover, Grade 3
STEM Road Map for Elementary School

Students are challenged to design playground equipment that safely meets their own standards for fun as they learn about motion, forces, and geometric shapes and use mathematical tools to collect and record data.

© 2018; ISBN: 978-1-68140-462-2; 235 pages

#: **PB425X6** E-book #: **PKEB425X6** Book/E-book Set #: **PKE425X6**

Transportation in the Future, Grade 3
STEM Road Map for Elementary School

Students are challenged to design a train of the future as they develop conceptual understanding of innovations in train technology, with a focus on maglev (magnetic levitation) trains.

© 2017; ISBN: 978-1-68140-399-1; 187 pages

#: **PB425X2** E-book #: **PKEB425X2** Book/E-book Set #: **PKE425X2**

Harnessing Solar Energy, Grade 4
STEM Road Map for Elementary School

Students are challenged to design a way for solar energy to provide the world with clean water as they investigate energy, energy sources, and the greenhouse effect.

© 2018; ISBN: 978-1-68140-402-8; 208 pages

#: **PB425X1** E-book #: **PKEB425X1** Book/E-book Set #: **PKE425X1**

Curriculum Series

Wind Energy, Grade 5
STEM Road Map for Elementary School

Students are challenged to develop an economical, eco-friendly wind farm as they investigate the interactions of Earth's systems, including geography, weather, and wind.

© 2018; ISBN: 978-1-68140-446-2; 220 pages
#: **PB425X3** E-book #: **PKEB425X3** Book/E-book Set #: **PKE425X3**

Amusement Park of the Future, Grade 6
STEM Road Map for Middle School

Students are challenged to research the background and designs of amusement parks as they learn about energy transfer, create blueprints, build and test small-scale prototypes, and develop cost–benefit analyses.

© 2018; ISBN: 978-1-68140-483-7; 114 pages
#: **PB425X5** E-book #: **PKEB425X5** Book/E-book Set #: **PKE425X5**

Packaging Design, Grade 6
STEM Road Map for Middle School

Students are challenged to create packaging that's engineered to both protect a product and make it a hot seller as they learn about geometric properties of three-dimensional shapes and engineering design.

© 2018; ISBN: 978-1-68140-452-3; 180 pages
#: **PB425X10** E-book #: **PKEB425X10** Book/E-book Set #: **PKE425X10**

Improving Bridge Design, Grade 8
STEM Road Map for Middle School

Students are challenged to design bridges that last longer as they construct scale models, research and compare minerals and rocks involved in bridge building, and investigate how much bridges cost and what could make them more sustainable.

© 2018; ISBN: 978-1-68140-414-1; 234 pages
#: **PB425X7** E-book #: **PKEB425X7** Book/E-book Set #: **PKE425X7**

Construction Materials, Grade 11
STEM Road Map for High School

Students explore how high-rises are constructed, their influence on society, and how to communicate complex ideas clearly; the factors involved in the collapse of the World Trade Center's twin towers in New York, with a focus on how engineers use structural failures to learn more about the designed world; and construction innovations.

© 2018; ISBN: 978-1-68140-471-4; 115 pages
#: **PB425X4** E-book #: **PKEB425X4** Book/E-book Set #: **PKE425X4**

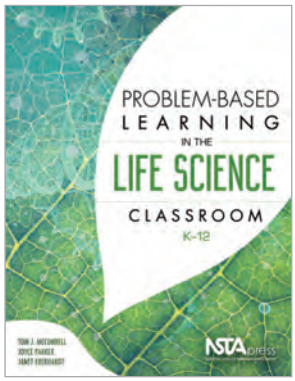
Car Crashes, Grade 12
STEM Road Map for High School

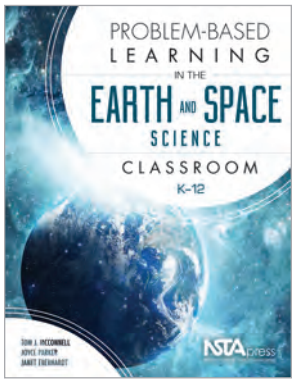
Students are challenged to research how car accidents happen—and what can be done to prevent them. They will investigate many aspects of accident prevention and response. They'll also use mathematics to reverse-engineer car crash scenarios and synthesize the information so they can act as expert witnesses in a simulated courtroom.

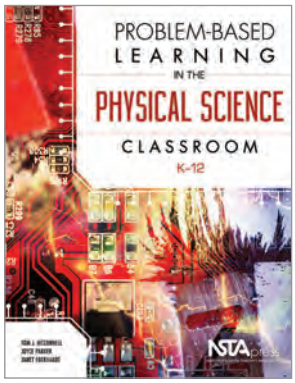
© 2018; ISBN: 978-1-68140-546-9; 138 pages
#: **PB425X13** E-book #: **PKEB425X13** Book/E-book Set #: **PKE425X13**

PROBLEM-BASED LEARNING

Tom J. McConnell, Joyce Parker, and Janet Eberhardt | NSTA PRESS, GRADES K–12







If you've ever asked yourself whether problem-based learning (PBL) can bring new life to both your teaching and your students' learning, here's your answer: Yes. The *Problem-Based Learning* series will help you engage your students in scenarios that represent real-world science in all its messy, thought-provoking glory. The scenarios will prompt K–12 students to work collaboratively on analyzing problems, asking questions, posing hypotheses, and constructing solutions.

These all-in-one guides are both informative and practical. In addition to complete lesson plans that support the *Next Generation Science Standards,* they offer extensive examples, instructions, and tips. Best of all, the books provide you with what many think is the trickiest part of PBL: rich, authentic problems. The authors not only facilitated the National Science Foundation–funded PBL Project for Teachers but also perfected the lessons in their own teaching. You can be confident that the problems and the teaching methods are teacher tested and approved.

Book	E-book	Book/E-book
Members: **$27.96**	Members: **$20.97**	Members: **$33.55**
Non-members: **$34.95**	Non-members: **$26.21**	Non-members: **$41.94**

Problem-Based Learning in the Life Science Classroom, K–12

© 2016; ISBN: 978-1-941316-20-7; 245 pages

#: **PB408X2** E-book #: **PKEB408X2** Book/E-book Set #: **PKE408X2**

Problem-Based Learning in the Earth and Space Science Classroom, K–12

© 2017; ISBN: 978-1-941316-19-1; 263 pages

#: **PB408X1** E-book #: **PKEB408X1** Book/E-book Set #: **PKE408X1**

Problem-Based Learning in the Physical Science Classroom, K–12

© 2018; ISBN: 978-1-941316-21-4; 271 pages

#: **PB408X3** E-book #: **PKEB408X3** Book/E-book Set #: **PKE408X3**

SAVE! Buy all three volumes together!

#: **PK408X3** Members: **$79.69** Non-members: **$99.61**

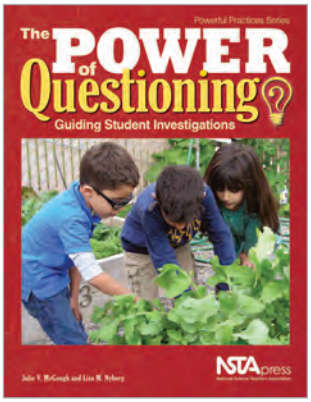
POWERFUL Practices Series

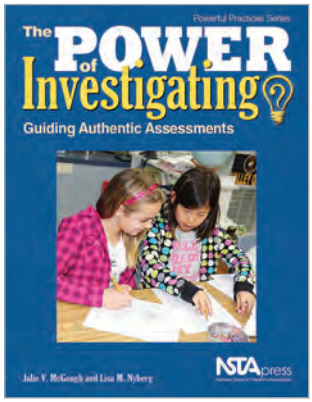
Popular Series

Julie V. McGough and Lisa M. Nyberg | NSTA PRESS, GRADES K–6

*"The **Powerful Practices** series is an ideal bridge between theory and practice. Teachers love the user-friendly resources, which encourage their students to ask questions and suggest ways to make learning applicable to the real world. The authors provide the support teachers need to appropriately use the NGSS with students of all ages. These books are 'must have' resources."*

—Nan Barker, regional director, CalStateTEACH, California State University, Fresno





The books in NSTA's *Powerful Practices* series are powerful tools in small packages! Through thoughtful text, informative photographs, and links to special videos, they provide fresh, lively strategies you and your students can learn from and enjoy and use to integrate state standards, *Next Generation Science Standards*, *Common Core State Standards*, and STEM education practices. The authors of the *Powerful Practices* series are veteran educators who know how busy and demanding today's K–6 classrooms are.

The series is based on a three-part instructional model—Powerful Practices—grounded in questioning, investigation, and assessment. *The Power of Questioning* shows how to nurture the potential for learning that grows out of children's irrepressible urge to ask questions. *The Power of Investigating* examines the promise that investigations offer when exploring student and teacher questions. *The Power of Assessing* covers assessment in the Powerful Practices method. Each volume can work as a stand-alone reference to help you develop assessments across disciplines and guide deeper thinking. The series can also be used as part of a professional development program or preservice class in elementary science or integrated instruction.

Book	E-book	Book/E-book
Members: **$19.96**	Members: **$14.97**	Members: **$23.95**
Non-members: **$24.95**	Non-members: **$18.71**	Non-members: **$29.94**

The Power of Questioning
Guiding Student Investigations

© 2015; ISBN: 978-1-938946-28-8; 64 pages
#: **PB358X** E-book #: **PKEB358X** Book/E-book Set #: **PKE358X**

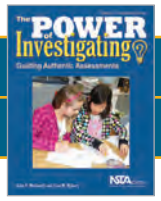
The Power of Investigating
Guiding Authentic Assessments

© 2017; ISBN: 978-1-68140-492-9; 103 pages
#: **PB358X2** E-book #: **PKEB358X2** Book/E-book Set #: **PKE358X2**

The Power of Assessing
Guiding Powerful Practices

© 2018; ISBN: 978-1-68140-549-0; 110 pages
#: **PB358X3** E-book #: **PKEB358X3** Book/E-book Set #: **PKE358X3**

SAVE! Buy all three volumes together!
#: **PK358X3** Members: **$56.89** Non-members: **$71.11**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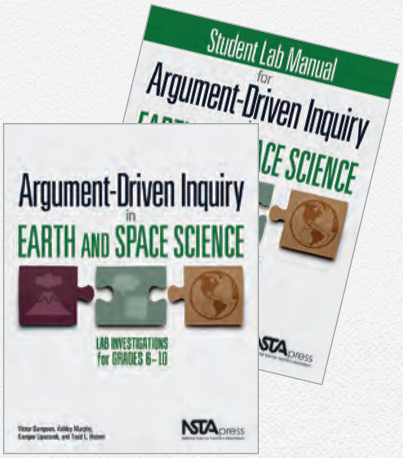


Argument-Driven Inquiry in Earth and Space Science

Lab Investigations for Grades 6–10

Victor Sampson, Ashley Murphy, Kemper Lipscomb, and Todd L. Hutner | NSTA PRESS, GRADES 6–10

© 2018; ISBN: 978-1-68140-373-1; 612 pages
#: **PB349X6** E-book #: **PKEB349X6** Book/E-book Set #: **PKE349X6**

Student Lab Manual for Argument-Driven Inquiry in Earth and Space Science

© 2018; ISBN: 978-1-68140-598-8; 284 pages
#: **PB349X6S** E-book #: **PKEB349X6S** Book/E-book Set #: **PKE349X6S**

See new elementary volumes on page 7!

The *Argument-Driven Inquiry* series helps teachers make labs much more active and engaging for their students. The investigations teach students to use argument to construct, support, and evaluate scientific claims of their own and others. Students will dig into important content as they gain a better understanding of the science and engineering practices, crosscutting concepts, and disciplinary core ideas of the *Next Generation Science Standards*. These investigations will also enable students to develop the skills outlined in the *Common Core State Standards* and practice reading, writing, speaking, and using math in the context of science.

The books include reproducible student pages, teacher notes, checkout questions, and standards-alignment matrices, so teachers have everything they need to start incorporating these authentic experiences in their classrooms. Students will have the opportunity to design their own methods, collect and analyze data, generate arguments, and critique claims and evidence. Each book has a companion Student Lab Manual that includes everything students need to complete the investigations.

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

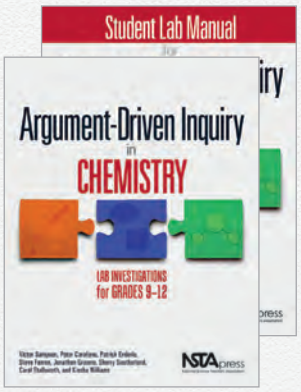
© 2014; ISBN: 978-1-938946-20-2; 418 pages
#: **PB349X1** E-book #: **PKEB349X1**
Book/E-book Set #: **PKE349X1**

Student Lab Manual for Argument-Driven Inquiry in Biology

© 2016; ISBN: 978-1-68140-014-3; 256 pages
#: **PB349X1S** E-book #: **PKEB349X1S** Book/E-book Set #: **PKE349X1S**

Argument-Driven Inquiry in Chemistry

Lab Investigations for Grades 9–12



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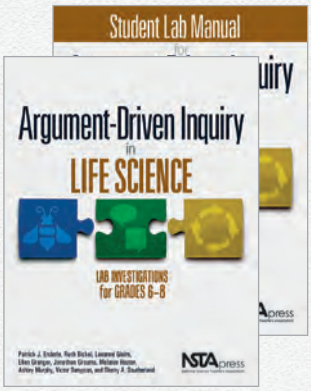

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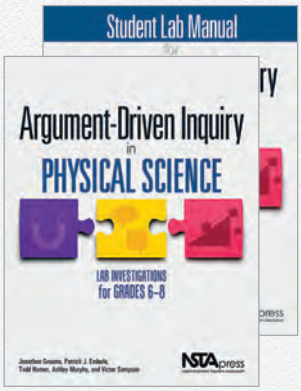

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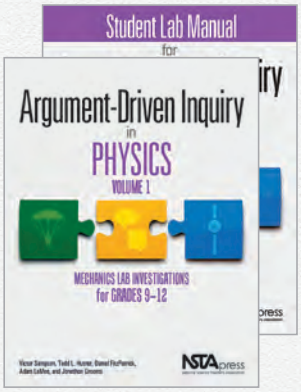

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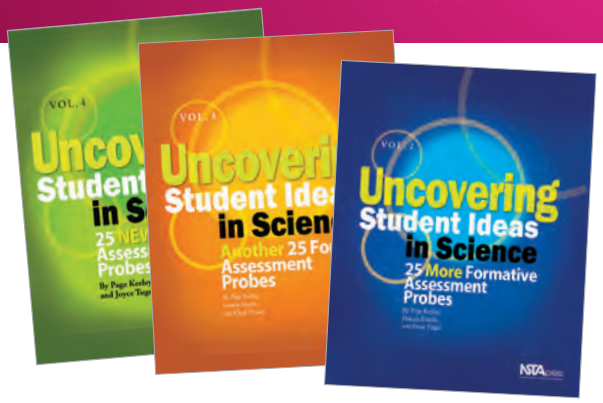

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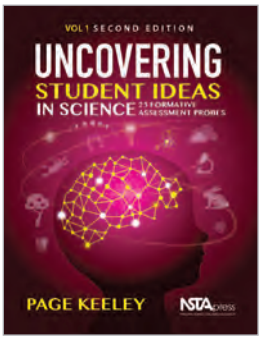

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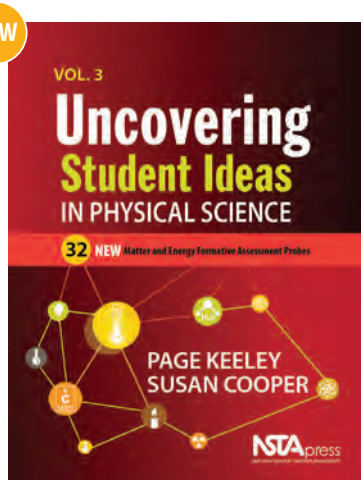

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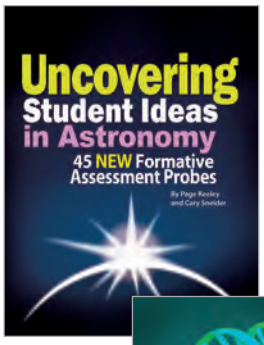

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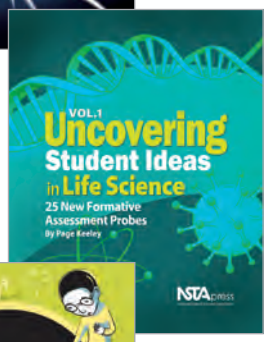

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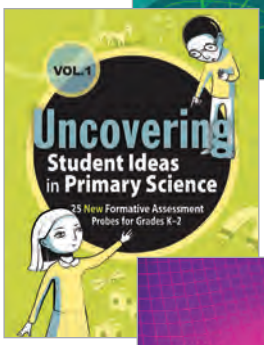

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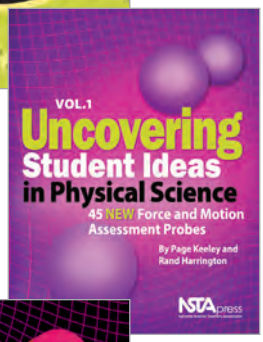

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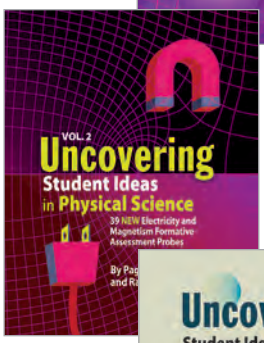

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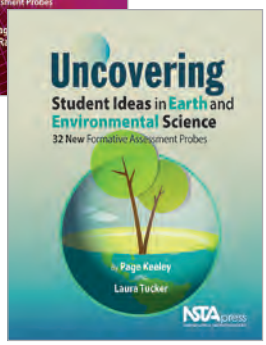

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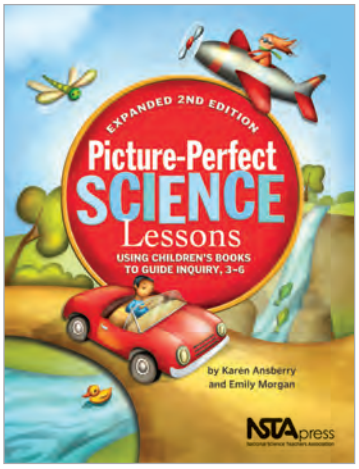

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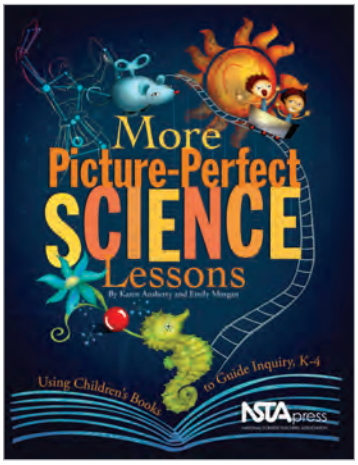

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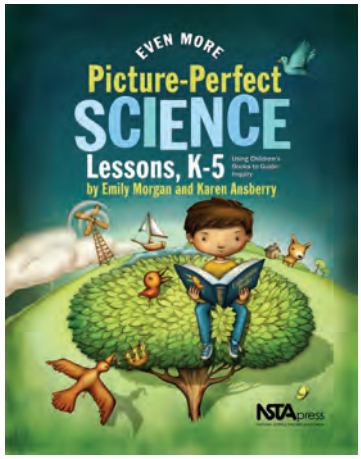

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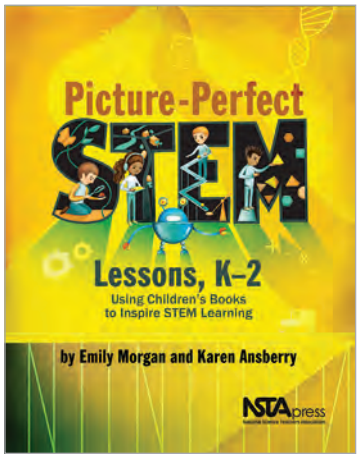

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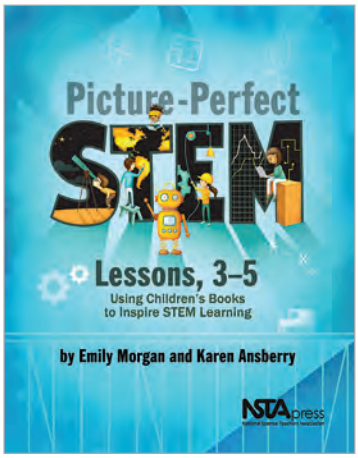

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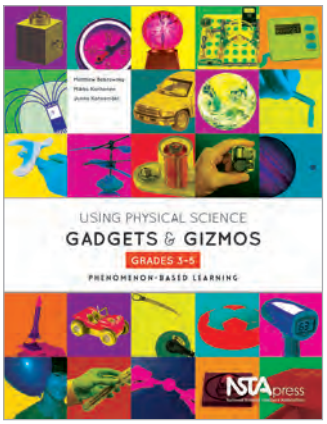

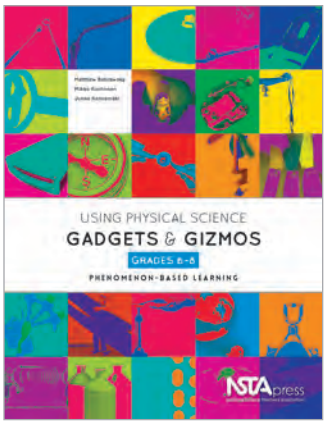

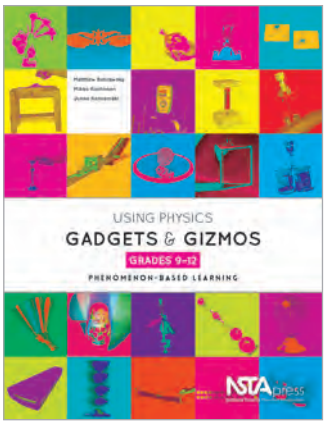

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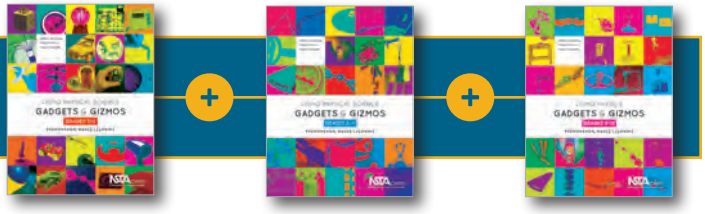

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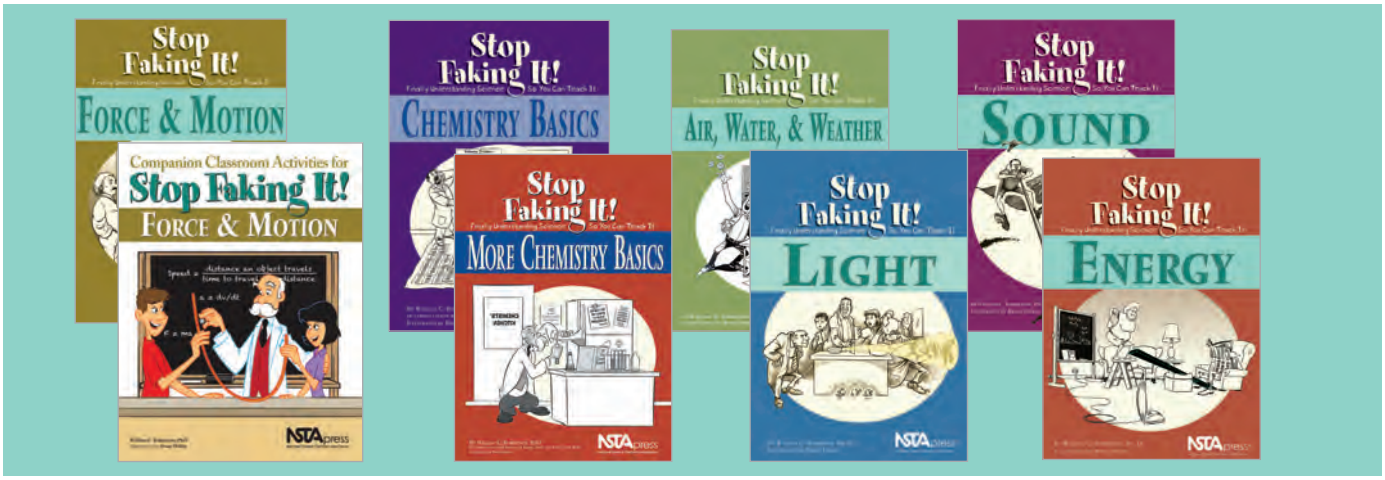

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EVERYDAY SCIENCE MYSTERIES

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 phenomena 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, Konicek-Moran 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, and a three-volume set comprises topic-specific books for physical, life, and Earth and space science. Chapters include science concepts to explore, grade-appropriate strategies for using the stories, and explanations of how the lessons support standards.

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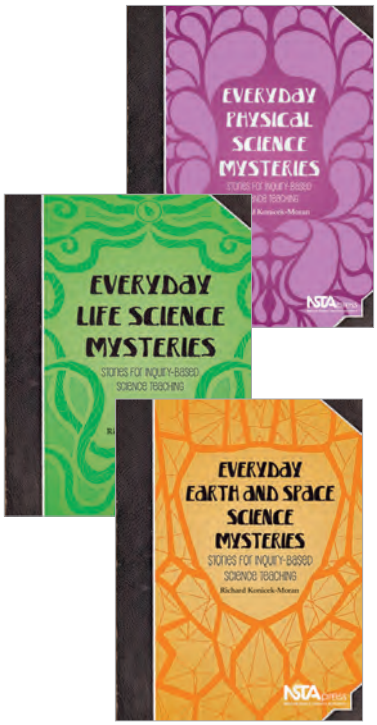


Everyday Science Mysteries
© 2008; ISBN: 978-1-933531-21-2; 188 pages
#: **PB220X** E-book #: **PKEB220X** Book/E-book Set #: **PKE220X**

More Everyday Science Mysteries
© 2009; ISBN: 978-1-933531-44-1; 207 pages
#: **PB220X2** E-book #: **PKEB220X2** Book/E-book Set #: **PKE220X2**

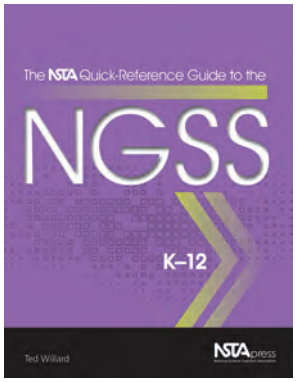
Even More Ev eryday Science Mysteries
© 2010; ISBN: 978-1-935155-13-3; 186 pages
#: **PB220X3** E-book #: **PKEB220X3** Book/E-book Set #: **PKE220X3**

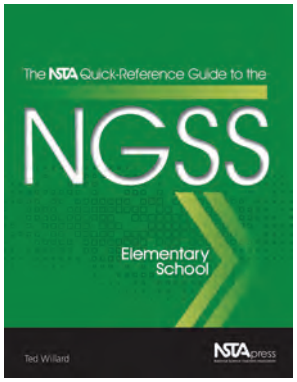
Yet More Everyday Science Mysteries
© 2011; ISBN: 978-1-936137-11-4; 198 pages
#: **PB220X4** E-book #: **PKEB220X4** Book/E-book Set #: **PKE220X4**

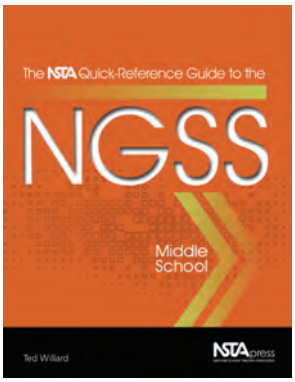
Everyday Physical Science Mysteries
© 2013; ISBN: 978-1-936959-29-7; 261 pages
#: **PB333X1** E-book #: **PKEB333X1** Book/E-book Set #: **PKE333X1**

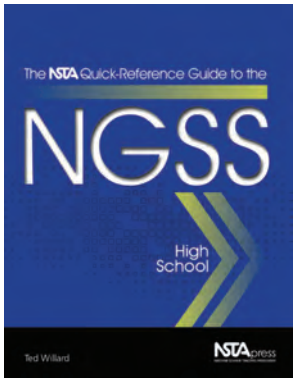
Everyday Life Science Mysteries
© 2013; ISBN: 978-1-936959-30-3; 254 pages
#: **PB333X2** E-book #: **PKEB333X2** Book/E-book Set #: **PKE333X2**

Everyday Earth and Space Science Mysteries
© 2013; ISBN: 978-1-936959-28-0; 232 pages
#: **PB333X3** E-book #: **PKEB333X3** Book/E-book Set #: **PKE333X3**









The NSTA Quick-Reference Guides to the *NGSS*

K–12, Elementary School, Middle School, and High School

Ted Willard, Editor | NSTA PRESS, GRADES K–12

The guides are available in grade-specific versions for elementary, middle, and high school, plus a version for K–12. Each book provides the appropriate performance expectations; disciplinary core ideas; practices; crosscutting concepts; connections to engineering, technology, and applications of science; and connections to the nature of science.

© 2015; 978-1-941316-10-8; 160 pages (K–12)

#: **PB354X**	Members: **$15.96**	Non-members: **$19.95**
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© 2015; ISBN: 978-1-941316-11-5; 110 pages (Elementary School)

#: **PB354X1**	Members: **$13.56**	Non-members: **$16.95**
E-book #: **PKEB354X1**	Members: **$10.17**	Non-members: **$12.71**
Book/E-book Set #: **PKE354X1**	Members: **$16.27**	Non-members: **$20.34**

© 2015; 978-1-941316-12-2; 105 pages (Middle School)

#: **PB354X2**	Members: **$13.56**	Non-members: **$16.95**
E-book #: **PKEB354X2**	Members: **$10.17**	Non-members: **$12.71**
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© 2015; 978-1-941316-13-9; 110 pages (High School)

#: **PB354X3**	Members: **$13.56**	Non-members: **$16.95**
E-book #: **PKEB354X3**	Members: **$10.17**	Non-members: **$12.71**
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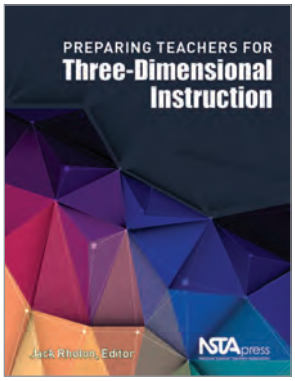
Preparing Teachers for Three-Dimensional Instruction

Jack Rhoton, Editor | NSTA PRESS, COLLEGE



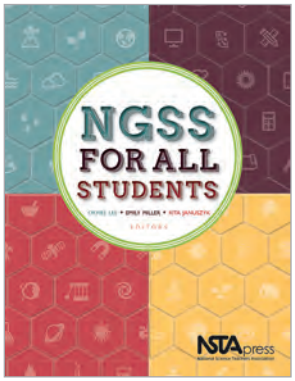
This book was written to help preservice teachers make the vision of the *NGSS* come alive in their future classrooms, but practicing K–12 teachers can also benefit from it. The book showcases the many shifts that higher education science faculty, teacher education faculty, and others are already making to bring the standards to life. The authors of the 18 chapters are outstanding classroom practitioners and science educators at all levels. Use this book to help your students become true practitioners of science.

© 2018; ISBN: 978-1-68140-393-9; 166 pages

#: **PB430X**	Members: **$33.56**	Non-members: **$41.95**
E-book #: **PKEB430X**	Members: **$25.17**	Non-members: **$31.46**
Book/E-book Set #: **PKE430X**	Members: **$40.27**	Non-members: **$50.34**

NGSS for All Students

Okhee Lee, Emily Miller, and Rita Januszyk, Editors | NSTA PRESS, GRADES K–12



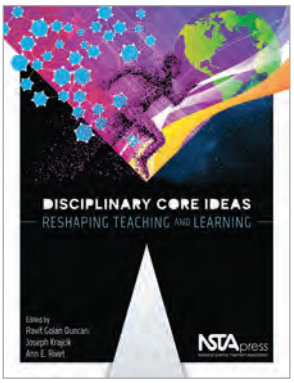
NGSS *for All Students* shows you how to teach diverse students *and* connect your lessons to the *Next Generation Science Standards* (*NGSS*). The emphasis is on *show*. At the core of the book are case studies that vividly illustrate research- and standards-based classroom strategies to engage seven diverse demographic groups: economically disadvantaged students, students from major racial and ethnic groups, students with disabilities, English language learners, girls, students in alternative education, and gifted and talented students. The case studies span all grade levels and science disciplines.

© 2015; ISBN: 978-1-938946-29-5; 210 pages

#: **PB400X**	Members: **$28.76**	Non-members: **$35.95**
E-book #: **PKEB400X**	Members: **$21.57**	Non-members: **$26.96**
Book/E-book Set #: **PKE400X**	Members: **$34.51**	Non-members: **$43.14**

Disciplinary Core Ideas
Reshaping Teaching and Learning

Ravit Golan Duncan, Joseph Krajcik, and Ann E. Rivet, Editors | NSTA PRESS, GRADES K–12



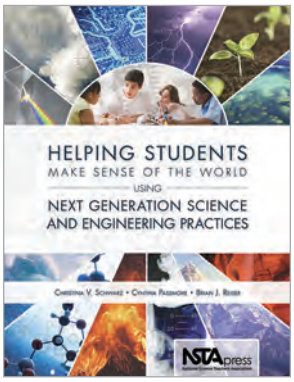
Building on the foundation provided by the *Framework*, which informed the development of the *NGSS*, this book helps your students make sense of seemingly unrelated phenomena. *Disciplinary Core Ideas* covers four broad areas: physical science; life science; Earth and space science; and engineering, technology, and applications of science. It aims to make science lessons at all grade levels more coherent and memorable. Think of it as your conceptual tool kit.

© 2017; ISBN: 978-1-938946-41-7; 312 pages

#: **PB402X**	Members: **$31.96**	Non-members: **$39.95**
E-book #: **PKEB402X**	Members: **$23.97**	Non-members: **$29.96**
Book/E-book Set #: **PKE402X**	Members: **$38.35**	Non-members: **$47.94**

Helping Students Make Sense of the World Using Next Generation Science and Engineering Practices

Christina V. Schwarz, Cynthia Passmore, and Brian J. Reiser | NSTA PRESS, GRADES K–12



Written in clear, nontechnical language, this book provides a nuts-and-bolts understanding of the practices strand of the *Framework* and the *NGSS*. It addresses three important questions: How will engaging students in science and engineering practices help improve class? What do the eight practices look like in the classroom? And exactly how can educators teach and support the *NGSS* using the practices? The book is a helpful resource for K–12 science teachers, curriculum developers, teacher educators, and administrators.

© 2017; ISBN: 978-1-938946-04-2; 381 pages

#: **PB351X**	Members: **$33.56**	Non-members: **$41.95**
E-book #: **PKEB351X**	Members: **$25.17**	Non-members: **$31.46**
Book/E-book Set #: **PKE351X**	Members: **$40.27**	Non-members: **$50.34**

Dive In!
Immersion in Science Practices for High School Students

Karen J. Graham, Lara M. Gengarelly, Barbara A. Hopkins, and Melissa A. Lombard
NSTA PRESS, GRADES 9–12

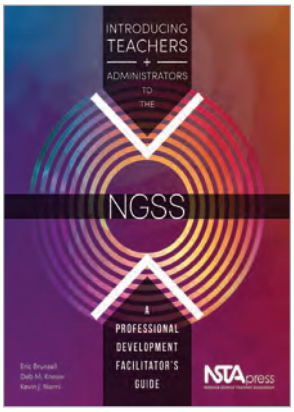
Dive In! provides detailed examples of how veteran teachers and their students can make the leap to implementing the recommendations of the *Framework* and the *NGSS*. Its vignettes offer authentic perspectives about conducting student investigations and integrating science practices. Its field-tested activities illustrate a range of investigations you can adopt or adapt. This book is the resource you need to help students shift from only knowing *about* science to actually investigating and making sense of it.

© 2017; ISBN: 978-1-941316-29-0; 288 pages

#: **PB410X**	Members: **$28.76**	Non-members: **$35.95**
E-book #: **PKEB410X**	Members: **$21.57**	Non-members: **$26.96**
Book/E-book Set #: **PKE410X**	Members: **$34.51**	Non-members: **$43.14**

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



This book is a natural companion to *Translating the* NGSS *for Classroom Instruction* (p. 30) and ideal for science specialists, curriculum coordinators, instructional coaches, and others who provide professional development. The book's 24 activities introduce educators to the *NGSS* terms, structure, and conceptual shifts; explore the practices and crosscutting concepts; help teachers work within the standards to support students challenged by traditional teaching; develop science road maps, essential questions, and assessments; and more.

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

#: **PB350X**	Members: **$29.56**	Non-members: **$36.95**
E-book #: **PKEB350X**	Members: **$22.17**	Non-members: **$27.71**
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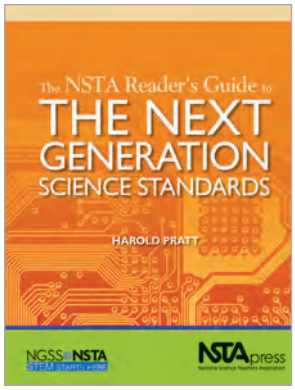
Next Generation Science Standards

For States, by States

NGSS Lead States | *NATIONAL ACADEMIES PRESS, GRADES K–12*

Not since the release of *A Framework for K–12 Science Education* has a document held such promise and significance for science education as do the *Next Generation Science Standards* (*NGSS*). Science—and therefore science education—is central to the lives of all Americans. When tracking current events, choosing and using technology, or making informed decisions about health care, science understanding is key. Science is also at the heart of the country's ability to innovate, lead, and create the jobs of the future. All students—whether they become chefs, doctors, or researchers—must have a solid science education. The *NGSS* have been packaged as a two-volume set. The first volume includes the standards themselves—with spiral binding—and the second contains the appendixes.

© 2013; ISBN: 978-0-309-27227-8; 400 pages (Vol. 1), 200 pages (Vol. 2)
#: **OP907X** Members: **$44.96** Non-members: **$49.95**



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 rigors 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. They will provide for a more integrated and cohesive approach to science instruction, leading to a more scientifically literate citizenry. The *NGSS* also mark a change in how we think about science instruction. The adoption of these new standards and their incorporation into instruction will require a significant amount of support. This easy-to-use *Reader's Guide* offers teachers, principals, and 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.

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

#: **PB340X**	Members: **$12.76**	Non-members: **$15.95**
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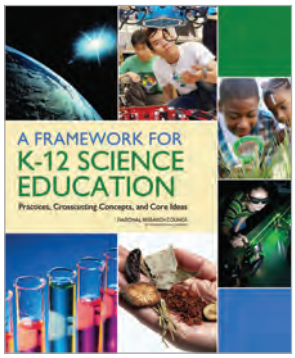
SAVE! Buy the NGSS and *The NSTA Reader's Guide*!

#: **PK340X2** Members: **$54.83** Non-members: **$62.61**



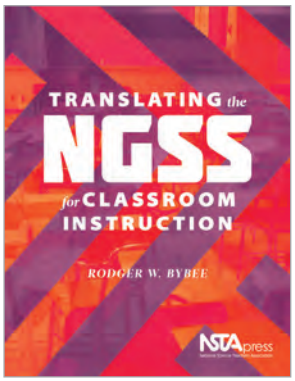
A Framework for K–12 Science Education

Practices, Crosscutting Concepts, and Core Ideas

National Research Council | *NATIONAL ACADEMIES PRESS, GRADES K–12*

A Framework for K–12 Science Education outlines an approach that will capture the interest of teachers and students and better prepare future generations. Written for science teachers, standards developers, curriculum designers, assessment developers, teacher educators, state and district science administrators, and informal educators, the *Framework* is the first step toward a research-grounded basis for improving science teaching and learning. Intended to be used with the *Next Generation Science Standards*, the *Framework* enables a deeper and more thorough understanding of the new standards and describes a broad set of expectations for students in science and engineering. These expectations have informed fundamental revisions to curriculum, instruction, assessment, and professional development for educators.

© 2012; ISBN: 978-0-309-21742-2; 320 pages
#: **OP901X** Members: **$35.96** Non-members: **$39.95**



Translating the *NGSS* for Classroom Instruction

Rodger W. Bybee | NSTA PRESS, GRADES K–12

This book provides essential guidance to everyone from teachers to school administrators to district and state science coordinators. It includes an introduction to the *NGSS*; examples of the standards translated to classroom instruction; and background, directions, and activities to help adapt current units of instruction to support the standards. Author Rodger Bybee notes that the success of the standards depends greatly on teachers' ability to give students opportunities to learn the science and engineering practices, crosscutting concepts, and disciplinary core ideas of the *NGSS*.

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

#: **PB341X**	Members: **$27.96**	Non-members: **$34.95**
E-book #: **PKEB341X**	Members: **$20.97**	Non-members: **$26.21**
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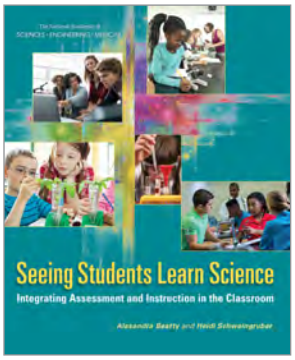


Seeing Students Learn Science

Integrating Assessment and Instruction in the Classroom

Alexandra Beatty and Heidi Schweingruber | *NATIONAL ACADEMIES PRESS*, GRADES K–12

The introduction of new science standards has led many states, schools, and districts to change curricula, instruction, and professional development. Assessment needs to change as well to measure active, engaged learning. *Seeing Students Learn Science* is meant to help educators create and implement classroom assessments so that they can better understand students' progress in a new vision of science learning. It includes examples of innovative assessment formats, ways to embed assessments in engaging classroom activities, and ideas for interpreting and using novel kinds of assessment information.

© 2017; ISBN: 978-0-309-44432-3; 124 pages

#: **OP943X** Members: **$31.76** Non-members: **$34.95**

Developing Assessments for the *Next Generation Science Standards*

National Research Council | *NATIONAL ACADEMIES PRESS*, GRADES K–12

Developing Assessments for the Next Generation Science Standards develops an approach to assessment to meet the vision of science education for the future as it has been elaborated in *A Framework for K–12 Science Education* and the *Next Generation Science Standards* (*NGSS*). These documents are fairly new, and the changes they call for are recently under way, but the new assessments will be needed as soon as states and districts begin the process of implementing the *NGSS* and changing their approach to science.

© 2014; ISBN: 978-0-309289-51-1; 288 pages

#: **OP915X** Members: **$44.96** Non-members: **$49.95**

Guide to Implementing the *Next Generation Science Standards*

National Research Council | *NATIONAL RESEARCH COUNCIL*, GRADES K–12

The *Framework* and the *NGSS* describe a new vision that is catalyzing improvements in science classrooms. *Guide to Implementing the* Next Generation Science Standards helps district and school leaders and teachers charged with developing a plan and implementing the *NGSS* as they change curriculum, instruction, professional learning, policies, and assessment to address the standards. This report lays out recommendations for action, cautions about potential pitfalls, and identifies overarching principles that should guide the planning and implementation process.

© 2015; ISBN: 978-0-309-30512-9; 114 pages

#: **OP936X** Members: **$34.16** Non-members: **$37.95**

STEM Education Now More Than Ever

Rodger W. Bybee | NSTA PRESS, GRADES K–12

In response to "these unconventional and uncertain years," veteran educator Rodger W. Bybee has written a book that's as thought-provoking as it is constructive. Now more than ever, he writes, "America needs reminders of both the themes that made it great in the first place and STEM's contributions to its citizens." Science educators must address STEM issues at local, national, and global levels. And teachers should help students tackle today's problems with new approaches to STEM learning that complement traditional single-discipline programs.

STEM Education Now More Than Ever addresses these themes through four wide-ranging sections. Parts of the book are what you might expect from a longtime thought leader in science education. In light of the 2016 election and recent assaults on science's validity, Bybee strongly asserts the need for making a new case for STEM education. Other parts may not seem typical for a book on STEM. He writes about the Enlightenment, the U.S. Constitution, democracy, and citizenship as reminders of the effects of STEM disciplines on America's foundational ideas and values.

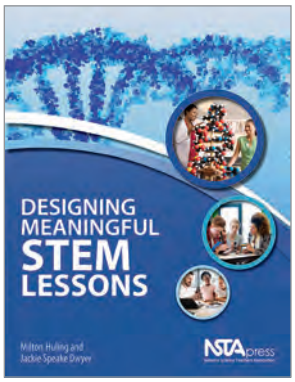
In the end, Bybee ties it all together with positive, practical recommendations. A major one involves newer, faster ways to help teachers develop STEM units that address contemporary challenges in their classes. Another involves the importance of strong leadership from teachers and the STEM education community—leadership Bybee believes we need now more than ever.

© 2018; ISBN: 978-1-68140-601-5; 159 pages

#: **PB437X**	Members: **$23.96**	Non-members: **$29.95**
E-book #: **PKEB437X**	Members: **$17.97**	Non-members: **$22.46**
Book/E-book Set #: **PKE437X**	Members: **$28.75**	Non-members: **$35.94**

Designing Meaningful STEM Lessons

Milton Huling and Jackie Speake Dwyer | NSTA PRESS, GRADES 3–8

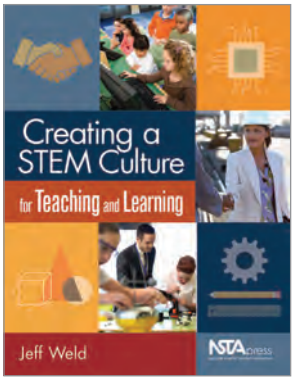


Sure, there are lots of cool STEM activities you can use in class. But do they really help your students learn science? This book shows you how to take lessons you're already familiar with and, through small changes, do what the title says: Design STEM lessons that are actually meaningful for teaching and learning science. You can also make sure your STEM lessons contain the content students need to learn.

The book's foundation is a conceptual framework that keeps science front and center, showing you how to embed engineering, technology, and science applications in your lessons—similar to how you would embed literacy skills in your classwork. To make it easy to use this conceptual framework, *Designing Meaningful STEM Lessons* provides 13 ready-to-use lessons in physical science, life science, and Earth and space science. True to the authors' promise to be both relevant and exciting, the lessons have titles such as "Cell-fie" and "Aircraft Catapult." All correlate with *A Framework for K–12 Science Education,* take a constructivist approach, and operate within the 5E instructional model. By presenting STEM as a "process and not a thing," *Designing Meaningful STEM Lessons* helps you bring STEM learning to life in your classroom, easily and effectively.

© 2018; ISBN: 978-1-68140-556-8; 199 pages

#: **PB436X**	Members: **$19.96**	Non-members: **$24.95**
E-book #: **PKEB436X**	Members: **$14.97**	Non-members: **$18.71**
Book/E-book Set #: **PKE436X**	Members: **$23.95**	Non-members: **$29.94**



Creating a STEM Culture for Teaching and Learning

Jeff Weld | NSTA PRESS, GRADES K–12

Author Jeff Weld channels the wisdom of professionals in education, business, and government to bring you the theory and policy behind nationally recognized education models for STEM. Sprinkled with lighthearted case studies, the book covers everything from why STEM matters to what STEM means.

© 2017; ISBN: 978-1-68140-396-0; 180 pages

#: **PB429X**	Members: **$30.36**	Non-members: **$37.95**
E-book #: **PKEB429X**	Members: **$22.77**	Non-members: **$28.46**
Book/E-book Set #: **PKE429X**	Members: **$36.43**	Non-members: **$45.54**

Everyday Engineering Series

Putting the E in STEM Teaching and Learning

Richard H. Moyer and Susan A. Everett | NSTA PRESS JOURNALS COLLECTIONS, GRADES 6–8

Spark curiosity with appealing, hands-on activities that will help middle schoolers understand that engineering truly is a part of their everyday lives. Each investigation is a complete lesson that includes in-depth teacher background information, expected sample data, a materials list, and a student activity sheet for recording results.

Book	E-book	Book/E-book
Members: **$15.96**	Members: **$11.97**	Members: **$19.15**
Non-members: **$19.95**	Non-members: **$14.96**	Non-members: **$23.94**

Everyday Engineering

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

#: **PB306X** E-book #: **PKEB306X**
Book/E-book Set #: **PKE306X**

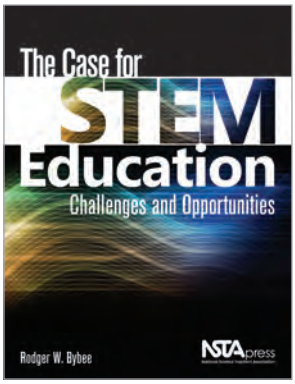
More Everyday Engineering

© 2016; ISBN: 978-1-68140-278-9; 122 pages

#: **PB306X2** E-book #: **PKEB306X2**
Book/E-book Set #: **PKE306X2**

SAVE! Buy *Everyday Engineering* and *More Everyday Engineering* together!

#: **PK306X2** Members: **$30.33** Non-members: **$37.91**



The Case for STEM Education

Challenges and Opportunities

Rodger W. Bybee | NSTA PRESS, GRADES K–12

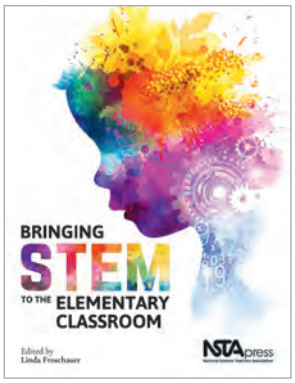
This book outlines the challenges facing STEM education. It is a must-read for national and state policy makers, state-level educators, college and university faculty who educate STEM teachers, administrators who make decisions about district and school programs, and teachers who represent STEM disciplines.

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

#: **PB337X**	Members: **$23.96**	Non-members: **$29.95**
E-book #: **PKEB337X**	Members: **$17.97**	Non-members: **$22.46**
Book/E-book Set #: **PKE337X**	Members: **$28.75**	Non-members: **$35.94**

Bringing STEM to the Elementary Classroom

Linda Froschauer, Editor | AN NSTA PRESS JOURNALS COLLECTION, GRADES PREK–5



This book is a comprehensive source of classroom-tested STEM investigations. The 36 lessons are conveniently organized into grade-level bands; grounded in research; designed to encourage learning across disciplines, promote problem-solving skills, introduce children to STEM careers, and serve all students equally well; and connected to all elements of the *NGSS*.

© 2016; ISBN: 978-1-68140-030-3; 324 pages

#: **PB413X**	Members: **$28.76**	Non-members: **$35.95**
E-book #: **PKEB413X**	Members: **$21.57**	Non-members: **$26.96**
Book/E-book Set #: **PKE413X**	Members: **$34.51**	Non-members: **$43.14**

"The editor, a veteran classroom teacher and educator, was aware of the need to include not only well–designed lessons, but also the strategies that elementary teachers need to implement the lessons and additional resources such as websites and references.* Bringing STEM to the Elementary Classroom *is an excellent resource for elementary classrooms as well as educators who work with elementary-aged children."

—NSTA Recommends

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

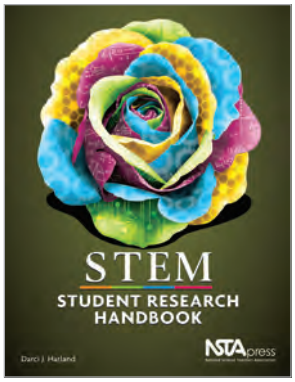
Doing Good Science is a comprehensive resource that covers big-picture concepts such as understanding the middle school learner and exploring the nature of science. It provides 10 sample activities to develop engaging lessons integrating STEM and 5E instruction with the standards. The authors give specific guidance on classroom management, safety, and how to use collaborative table groups and science lab notebooks. The new edition shares the same goal as the popular first edition: to prove that good science is compatible with noisy, bustling, insatiably curious middle schoolers.

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

#: **PB183E2**	Members: **$29.56**	Non-members: **$36.95**
E-book #: **PKEB183E2**	Members: **$22.17**	Non-members: **$27.71**
Book/E-book Set #: **PKE183E2**	Members: **$35.47**	Non-members: **$44.34**

STEM Student Research Handbook

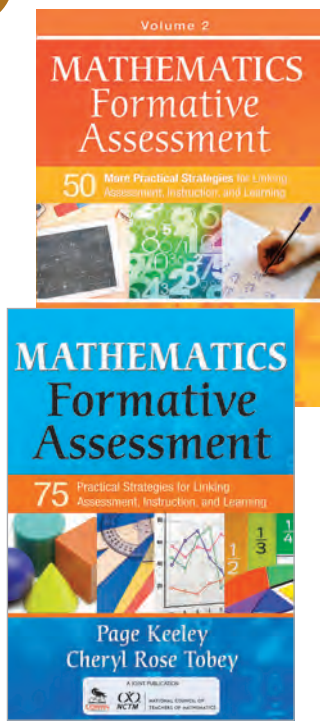
Darci J. Harland | NSTA PRESS, GRADES 9–12



This valuable handbook outlines the stages of large-scale science research projects. Twelve chapters cover all aspects of development—generating ideas, creating research design, writing proposals, conducting experiments, interpreting data, and presenting results. Also included are student handouts as well as an appendix with checklists, observations sheets, and sample assessment rubrics.

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

#: **PB297X**	Members: **$24.76**	Non-members: **$30.95**
E-book #: **PKEB297X**	Members: **$18.57**	Non-members: **$23.21**
Book/E-book Set #: **PKE297X**	Members: **$29.71**	Non-members: **$37.14**



Mathematics Formative Assessment, Volumes 1 and 2

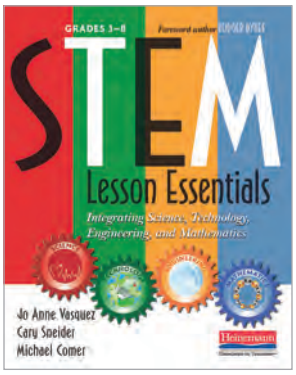
Practical Strategies for Linking Assessment, Instruction, and Learning

Page Keeley and Cheryl Rose Tobey | *CORWIN AND NCTM PRESS, GRADES K–12*

Award-winning author Page Keeley and mathematics expert Cheryl Rose Tobey apply the format of Keeley's bestselling *Science Formative Assessment* (p. 40) to mathematics. They show teachers how to use formative assessment strategies to inform instructional planning and better meet the needs of all students and provide guidance with each technique. Research shows that formative assessment has the power to significantly improve learning, and its many benefits include stimulation of metacognitive thinking, increased student engagement, insights into student thinking, and development of a discourse community. Volume 1 includes 75 strategies, and volume 2 provides 50 more strategies.

Volume 1: © 2011; ISBN: 978-1-4129-6812-6; 256 pages
Volume 2: © 2017; ISBN: 978-1-506311-39-5; 256 pages
#: **OP905X** (Vol. 1) / **OP905X2** (Vol. 2) Members: **$33.26** Non-members: **$36.95**

SAVE! Buy both volumes together!
#: **OK905X2** Members: **$63.19** Non-members: **$70.21**



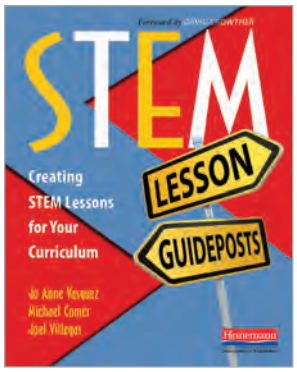
STEM Lesson Essentials

Integrating Science, Technology, Engineering, and Mathematics

Jo Anne Vasquez, Cary Sneider, and Michael Comer | *HEINEMANN, GRADES 3–8*

This book provides all the strategies you'll need to design integrated, interdisciplinary STEM lessons and units that are relevant and exciting to your students. The book shows teachers how to begin the STEM integration journey with five guiding principles for effective STEM instruction, classroom examples of what these principles look like in action, sample activities that put all four STEM fields into practice, and lesson planning templates for STEM units. Explicit connections are made among the STEM practices, including the *Common Core State Standards* for mathematics and the *Framework*.

© 2013; ISBN: 978-0-325-04358-6; 196 pages
#: **OP909X** Members: **$26.96** Non-members: **$29.95**



STEM Lesson Guideposts

Creating STEM Lessons for Your Curriculum

Jo Anne Vasquez, Michael Comer, and Joel Villegas | *HEINEMANN, GRADES 3–8*

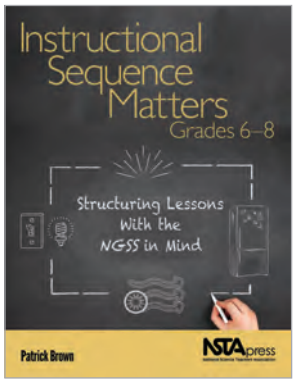
This companion to the bestselling *STEM Lesson Essentials* (above) will help you move from thinking about *what STEM is* to the *how* of constructing impactful STEM lessons and units. The authors developed the W.H.E.R.E. planning model—five interrelated guideposts that provide structure and guidance for conceiving, creating, and organizing STEM experiences. You'll learn to create hands-on, inquiry-focused experiences using your own curriculum and standards and develop STEM lessons that are not only rigorous but also relevant to your students.

© 2017; ISBN: 978-0325087764; 144 pages
#: **OP944X** Members: **$22.66** Non-members: **$24.95**

Instructional Sequence Matters, Grades 6–8

Structuring Lessons With the NGSS in Mind

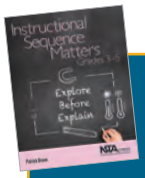
Patrick Brown | NSTA PRESS, GRADES 6–8



This book shows how to make simple shifts in the way you arrange and combine activities to improve student learning. It provides a complete self-guided tour to becoming an "explore-before-explain" teacher and helping students construct accurate knowledge firsthand. The book focuses on two popular instructional models, POE (Predict, Observe, and Explain) and 5E (Engage, Explore, Explain, Elaborate, and Evaluate), and comes with ready-to-use lessons to teach about heat and temperature, magnetism, electric circuits, and force and motion. See the volume for grades 3–5 on page 3.

© 2018; ISBN: 978-1-68140-584-1; 103 pages

#: **PB438X**	Members: **$20.76**	Non-members: **$25.95**
E-book #: **PKEB438X**	Members: **$15.57**	Non-members: **$19.46**
Book/E-book Set #: **PKE438X**	Members: **$24.91**	Non-members: **$31.14**



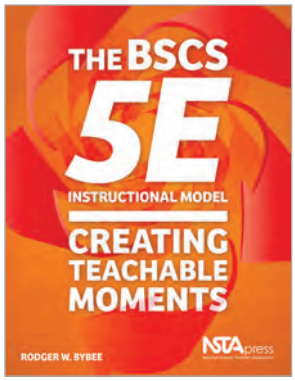
SAVE! Buy both volumes together!

#: **PK438X2** Members: **$39.45** Non-members: **$49.31**

The BSCS 5E Instructional Model

Creating Teachable Moments

Rodger W. Bybee | NSTA PRESS, GRADES K–12



The popular *BSCS 5E Instructional Model* includes five phases: Engage, Explore, Explain, Elaborate, and Evaluate. The book elaborates on how the model connects to the *NGSS,* STEM education, and 21st-century skills.

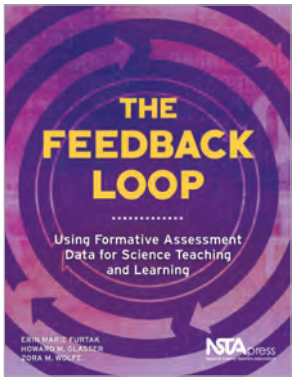
© 2015; ISBN: 978-1-941316-00-9; 126 pages

#: **PB356X**	Members: **$27.96**	Non-members: **$34.95**
E-book #: **PKEB356X**	Members: **$20.97**	Non-members: **$26.21**
Book/E-book Set #: **PKE356X**	Members: **$33.55**	Non-members: **$41.94**

The Feedback Loop

Using Formative Assessment Data for Science Teaching and Learning

Erin Marie Furtak, Howard M. Glasser, and Zora M. Wolfe | NSTA PRESS, GRADES 6–12



This book introduces the Feedback Loop framework; highlights the four elements of goals, tools, data, and inferences; explores how to connect inferences and goals through feedback; and shows how to use the loop to inform instruction. The book supports the *NGSS.*

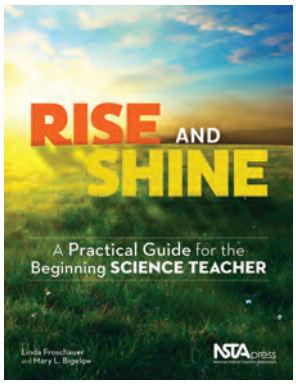
© 2016; ISBN: 978-1-941316-14-6; 175 pages

#: **PB405X**	Members: **$28.76**	Non-members: **$35.95**
E-book #: **PKEB405X**	Members: **$21.57**	Non-members: **$26.96**
Book/E-book Set #: **PKE405X**	Members: **$34.51**	Non-members: **$43.14**

Rise and Shine

A Practical Guide for the Beginning Science Teacher

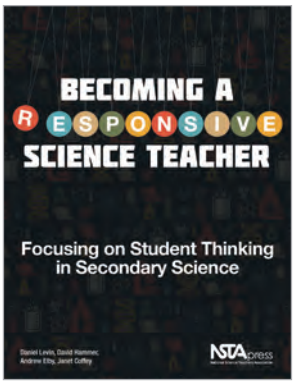
Linda Froschauer and Mary L. Bigelow | NSTA PRESS, GRADES K–12



The easy-to-read book offers candid advice from seasoned science teachers and 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 setup, classroom safety, and initiating inquiry.

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

#: **PB308X**	Members: **$26.36**	Non-members: **$32.95**
E-book #: **PKEB308X**	Members: **$19.77**	Non-members: **$24.71**
Book/E-book Set #: **PKE308X**	Members: **$31.63**	Non-members: **$39.54**



Becoming a Responsive Science Teacher

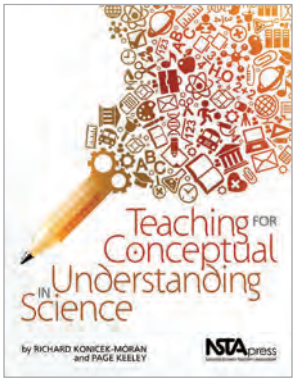
Focusing on Student Thinking in Secondary Science

Daniel Levin, David Hammer, Andrew Elby, and Janet Coffey | NSTA PRESS, GRADES 9–12

Through five case studies, learn how you can shift from the traditional method—presenting material that you hope students will retain—to "responsive listening"—attuning your teaching to the substance of students' reactions to your lessons and helping them learn how to learn science.

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

#: **PB323X**	Members: **$23.96**	Non-members: **$29.95**
E-book #: **PKEB323X**	Members: **$17.97**	Non-members: **$22.46**
Book/E-book Set #: **PKE323X**	Members: **$28.75**	Non-members: **$35.94**



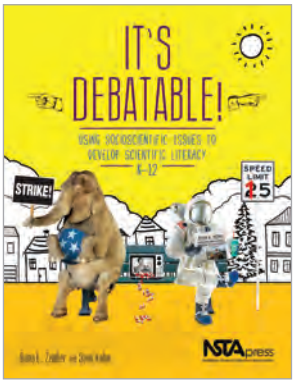
Teaching for Conceptual Understanding in Science

Richard Konicek-Moran and Page Keeley | NSTA PRESS, GRADES K–12

This book will make you think about what the authors call "the major goal of science education in the 21st century": to help students understand science at the conceptual level so they can see its connections to other fields, other concepts, and their lives.

© 2015; ISBN: 978-1-938946-10-3; 248 pages

#: **PB359X**	Members: **$28.76**	Non-members: **$35.95**
E-book #: **PKEB359X**	Members: **$21.57**	Non-members: **$26.96**
Book/E-book Set #: **PKE359X**	Members: **$34.51**	Non-members: **$43.14**



It's Debatable!

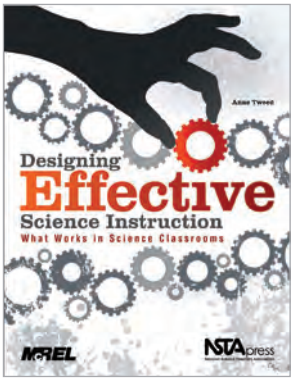
Using Socioscientific Issues to Develop Scientific Literacy, K–12

Dana L. Zeidler and Sami Kahn | NSTA PRESS, GRADES K–12

Students will explore real-world questions using the Socioscientific Issues Framework. This book encourages scientific literacy and supports the *NGSS* by giving students practice in research, analysis, and argumentation and by confronting just how messy the questions raised by science (and pseudoscience) can be. See the new volume, *It's Still Debatable!*, on page 4.

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

#: **PB347X**	Members: **$30.36**	Non-members: **$37.95**
E-book #: **PKEB347X**	Members: **$22.77**	Non-members: **$28.46**
Book/E-book Set #: **PKE347X**	Members: **$36.43**	Non-members: **$45.54**



Designing Effective Science Instruction

What Works in Science Classrooms

Anne Tweed | NSTA PRESS AND *MCREL*, GRADES K–12

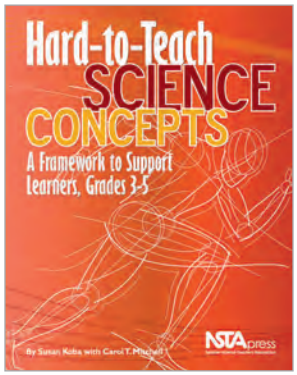
Science teachers in every grade band will benefit from this research-based text with practical steps to improve science instruction. Author Anne Tweed recommends a C-U-E framework—Content, Understanding, and Environment—demonstrating to educators that all three elements must be part of lesson design and implementation to successfully achieve high-quality science instruction. Providing a review of the research related to each element, strategies to be incorporated into the lesson, and tools that assess teachers' practices, this is a must-have resource.

© 2009; ISBN: 978-1-935155-06-5; 222 pages

#: **PB243X**	Members: **$27.96**	Non-members: **$34.95**
E-book #: **PKEB243X**	Members: **$20.97**	Non-members: **$26.21**
Book/E-book Set #: **PKE243X**	Members: **$33.55**	Non-members: **$41.94**

Hard-to-Teach Science Concepts
A Framework to Support Learners, Grades 3–5

Susan Koba and Carol T. Mitchell | NSTA PRESS, GRADES 3–5



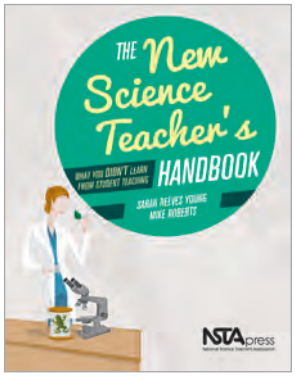
Four actions make up the methodology in this book: Engage students about their preconceptions and address and dispel misconceptions, target lessons to be learned, determine appropriate strategies, and use standards-based teaching that builds on student understandings. With the framework comes examples of application, specifically on the flow of energy and matter in ecosystems, force and motion, matter and its transformation, and Earth's shape.

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

#: **PB238X2**	Members: **$27.16**	Non-members: **$33.95**
E-book #: **PKEB238X2**	Members: **$20.37**	Non-members: **$25.46**
Book/E-book Set #: **PKE238X2**	Members: **$32.59**	Non-members: **$40.74**

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



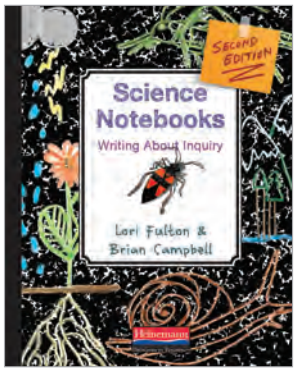
This book aims to help you become the teacher you've always aspired to be. It covers the day-to-day stumbling blocks your methods classes didn't, including organizing the jungle of science materials your predecessor left, making grading manageable, and coping with cranky parents. Each of the 12 chapters is set up to make the book fun to read. You 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 for you and your classes when you follow the steps; and resources for further reading.

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

#: **PB342X**	Members: **$25.56**	Non-members: **$31.95**
E-book #: **PKEB342X**	Members: **$19.77**	Non-members: **$24.71**
Book/E-book Set #: **PKE342X**	Members: **$31.63**	Non-members: **$39.54**

Science Notebooks, Second Edition
Writing About Inquiry

Lori Fulton and Brian Campbell | *HEINEMANN, GRADES K–5*



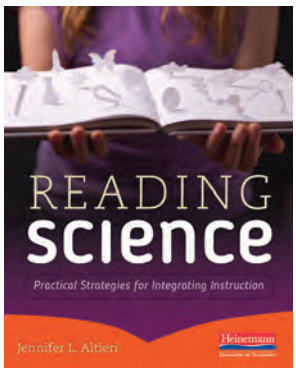
This book inspires teachers to use science notebooks to support implementation of the standards and help students reveal and develop their thinking about scientific concepts, engage in the work of scientists and engineers, and exercise language skills. Chapter materials include strategies to scaffold science notebook instruction, approaches for collecting and analyzing notebooks for formative assessment, student samples and classroom vignettes, and new interviews with scientists and engineers that spotlight the use of notebooks in their work.

© 2014; ISBN: 978-0-325-05659-3; 136 pages

#: **OP914X**	Members: **$21.36**	Non-members: **$23.75**

Reading Science
Practical Strategies for Integrating Instruction

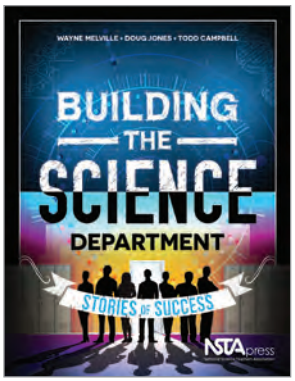
Jennifer L. Altieri | *HEINEMANN, GRADES 4–8*



Filled with practical strategies customized for science classrooms, this book supports teaching students to be critical consumers of scientific information; developing students' interest in scientific vocabulary; and encouraging collaboration as students seek answers to scientific questions and communicate their findings. With *Reading Science,* teachers can use literacy as a tool to help students access science content, communicate their ideas precisely, and apply their discoveries in new contexts.

© 2016; ISBN: 978-0-325-06258-7; 130 pages

#: **OP940X**	Members: **$21.56**	Non-members: **$23.95**



Building the Science Department

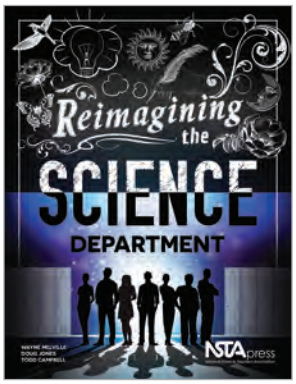
Stories of Success

Wayne Melville, Doug Jones, and Todd Campbell | NSTA PRESS, GRADES 6–12

This book explains how your science department can become a site for developing science teachers' professional learning. The first part of the book covers scientific activity as represented in the Framework and the *NGSS* and its role in making the science department a place for building professional learning. The second part uses teacher vignettes to work through the components of a professional learning framework—context, content, activities, and processes. After each vignette is a commentary and questions to challenge teachers to improve their instructional practices and align them with current reform initiatives.

© 2017; ISBN: 978-1-68140-274-1; 147 pages

#: **PB426X**	Members: **$23.96**	Non-members: **$29.95**
E-book #: **PKEB426X**	Members: **$17.97**	Non-members: **$22.46**
Book/E-book Set #: **PKE426X**	Members: **$28.75**	Non-members: **$35.94**



Reimagining the Science Department

Wayne Melville, Doug Jones, and Todd Campbell | NSTA PRESS, GRADES 6–12

Reimagining the Science Department invites you to reassess past and current practices in science departments. The text offers rich historical perspective, and you'll come away with sensible strategies—bolstered by practitioner vignettes and related research—that your entire department can put to work right away. See also the authors' latest NSTA Press book, *Building the Science Department* (above).

© 2015; ISBN: 978-1-938946-32-5; 118 pages

#: **PB357X**	Members: **$23.96**	Non-members: **$29.95**
E-book #: **PKEB357X**	Members: **$17.97**	Non-members: **$22.46**
Book/E-book Set #: **PKE357X**	Members: **$28.75**	Non-members: **$35.94**

***"Reimagining the Science Department** is very useful for any head of science trying to bring about change in the way science is taught in their school."*

—Education in Chemistry

Be a Winner!

A Science Teacher's Guide to Writing Successful Grant Proposals

Patty McGinnis and Kitchka Petrova | NSTA PRESS, GRADES K–12

Formatted as a handy workbook, *Be a Winner!* takes you step by step through the writing process. You'll learn the top 10 reasons to write a grant proposal, how to identify and refine proposal ideas, the basic components of every proposal, the ins and outs of submitting a proposal, and how to manage a funded project. Appendixes provide you with writing templates, a grant proposal rubric, science-related grant listings and teaching awards, and more.

© 2016; ISBN: 978-1-68140-001-3; 136 pages

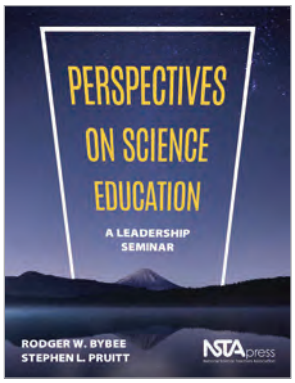
#: **PB412X**	Members: **$28.76**	Non-members: **$35.95**
E-book #: **PKEB412X**	Members: **$21.57**	Non-members: **$26.96**
Book/E-book Set #: **PKE412X**	Members: **$34.51**	Non-members: **$43.14**

"This guide is very user-friendly and a must for every science teacher's library. Our program uses this excellent resource for the professional development we hold for our graduates. Even seasoned grant proposal writers will learn valuable tips when following this guide."

—Amazon customer (verified purchaser)

Perspectives on Science Education
A Leadership Seminar

Rodger W. Bybee and Stephen L. Pruitt | NSTA PRESS, GRADES K–12



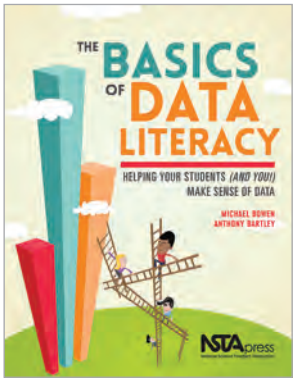
Authors Rodger W. Bybee and Stephen L. Pruitt are two of science education's most prominent thought leaders. Writing in a conversational style, they encourage you to ponder central concerns of the science education community in general and science teachers in particular. The book starts with an introduction to perspectives, challenges, standards, and leadership—themes that weave throughout the book. After a brief history of science education, Bybee and Pruitt cover some of the current issues and topics in education, such as state standards and district leadership, curriculum programs, professional development, and assessment and accountability. *Perspectives on Science Education* is certain to launch professional conversations that will contribute to a deeper understanding of science education and strengthen your desire and ability to lead.

© 2017; ISBN: 978-1-941316-30-6; 404 pages

#: **PB424X**	Members: **$35.96**	Non-members: **$44.95**
E-book #: **PKEB424X**	Members: **$26.97**	Non-members: **$33.71**
Book/E-book Set #: **PKE424X**	Members: **$43.15**	Non-members: **$53.94**

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

Michael Bowen and Anthony Bartley | NSTA PRESS, GRADES 6–12



Written in an informal style with easy-to-grasp examples, *The Basics of Data Literacy* teaches you how to help your students understand, collect, summarize, and analyze statistics inside and outside the classroom.

© 2014; ISBN: 978-1-938946-03-5; 171 pages

#: **PB343X**	Members: **$26.36**	Non-members: **$32.95**
E-book #: **PKEB343X**	Members: **$19.77**	Non-members: **$24.71**
Book/E-book Set #: **PKE343X**	Members: **$31.63**	Non-members: **$39.54**

Including Students With Disabilities in Advanced Science Classes

Lori A. Howard and Elizabeth A. Potts | NSTA PRESS, GRADES 9–12

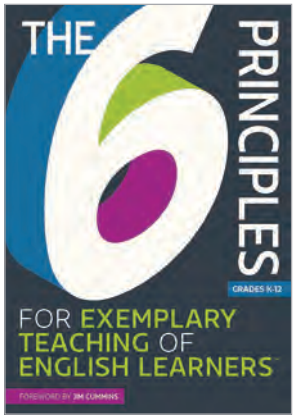
This book offers realistic guidance for helping students with disabilities succeed in advanced science classes. Eight straightforward chapters provide a strong foundation in special education terms and laws; working with the IEP team; classroom considerations regarding behavior, instruction, labs, and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

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

#: **PB339X**	Members: **$20.76**	Non-members: **$25.95**
E-book #: **PKEB339X**	Members: **$15.57**	Non-members: **$19.46**
Book/E-book Set #: **PKE339X**	Members: **$24.91**	Non-members: **$31.14**

The 6 Principles for Exemplary Teaching of English Learners

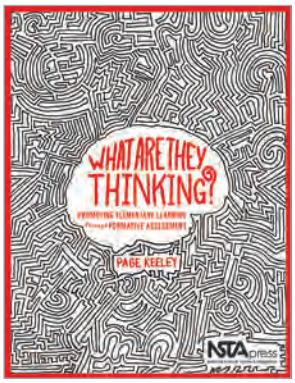
TESOL International Association Writing Team | *TESOL PRESS*, GRADES K–12



The 6 Principles are universal guidelines drawn from decades of research in language pedagogy and language acquisition theory. They provide an evidence-based foundation for schools to examine their own instructional practice and work collaboratively to enable English learners to acquire strong social and academic language proficiency. The principles are applicable across different educational settings. The book includes essential information on language development and second language acquisition, practical applications of the 6 Principles for K–12 classrooms, access to informational videos and additional online resources for educators and educational personnel, and more.

© 2018; ISBN: 978-1945351303; 142 pages

#: **OP946X**	Members: **$26.05**	Non-members: **$28.95**



What Are They Thinking?

Promoting Elementary Learning Through Formative Assessment

Page Keeley | AN NSTA PRESS JOURNALS COLLECTION, GRADES PREK–5

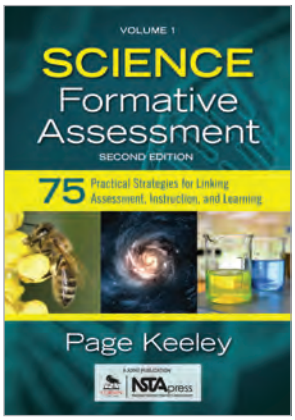
This compendium of 30 "Formative Assessment Probes" columns from NSTA's *Science and Children* provides sample probes—sets of interesting questions that root out commonly held (and often mistaken) ideas. Students' answers will help you figure out how to guide them from where they are conceptually to where they need to be. Teacher notes tell you how to encourage evidence-based discussion and monitor students' progress. For each column, Page Keeley, the award-winning author of NSTA's best-selling *Uncovering Student Ideas in Science* series (pp. 18–19), has added a set of study group questions.

© 2014; ISBN: 978-1-938946-25-7; 226 pages

#: **PB348X**	Members: **$30.36**	Non-members: **$37.95**
E-book #: **PKEB348X**	Members: **$24.67**	Non-members: **$28.46**
Book/E-book Set #: **PKE348X**	Members: **$39.47**	Non-members: **$49.34**

"I just love using probes and uncovering misconceptions students have [about] science concepts. Science topics are not always easy for non-science oriented educators to wrap their heads around, and we need all the resources we can get!"

—NSTA Press reader Susan P.



Science Formative Assessment, Volume 1, Second Edition

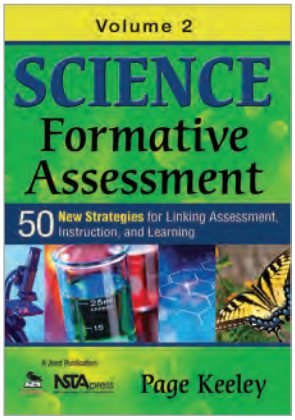
75 Practical Strategies for Linking Assessment, Instruction, and Learning

Page Keeley | CORWIN AND NSTA PRESS, GRADES K–12

Page Keeley wrote *Science Formative Assessment* to help educators weave formative assessment into instruction and learning. In the second edition of the bestselling first volume, she provides new examples, links the strategies to current research and standards, and shows how these techniques can be used across other disciplines. The formative assessment classroom techniques (FACTs) include descriptions of how each FACT promotes learning and informs instruction, implementation guidance, modifications for different learners, and more.

© 2016; ISBN: 978-1-483352-17-6; 384 pages

#: **PA011X1E2** Members: **$29.56** Non-members: **$36.95**



Science Formative Assessment, Volume 2

50 New Strategies for Linking Assessment, Instruction, and Learning

Page Keeley | CORWIN AND NSTA PRESS, GRADES K–12

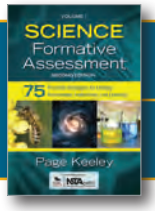
This book shows how to use assessment to inform instruction and learning in the science classroom. Volume 2 presents 50 new strategies linked to the *NGSS* that will help teachers determine students' understanding of key concepts and design learning opportunities. These assessments can be used with any science curriculum and include a description of how each technique promotes learning; considerations for design and implementation; modifications for different types of students or purposes; caveats for using each technique; and ways the techniques can be used in other content areas.

© 2015; ISBN: 978-1-452270-25-8; 256 pages

#: **PA011X2** Members: **$29.56** Non-members: **$36.95**

SAVE! Buy the *Science Formative Assessment* volumes together!

#: **PAK011X2** Members: **$54.65** Non-members: **$68.31**



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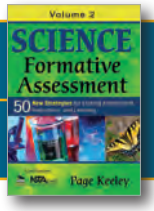


Eureka! Series

Introduce skill-building inquiry investigations with the *Eureka!* series. At the books' core are more than two dozen lessons that connect science content to children's trade book biographies of scientists and engineers. Some of these individuals are famous (such as George Washington Carver, Albert Einstein, and Jane Goodall), whereas others are not as well known (such as paleontologist Mary Anning, astronomer Annie Jump Canon, and engineer William Kamkwanba). The lessons are designed to support the *NGSS* and be appealing and easy to use. Chapters delve into the practices of science and engineering, such as how to ask questions and define problems, plan and conduct investigations, and analyze and interpret data. With engaging lessons, even the youngest students can make an important discovery: Scientists aren't stereotypes wearing goggles and lab coats. They are both women and men whose work and success stem from their life experiences and character traits.

Book	E-book	Book/E-book
Members: **$35.96**	Members: **$26.97**	Members: **$43.15**
Non-members: **$44.95**	Non-members: **$33.71**	Non-members: **$53.94**

Eureka, Again! K–2 Science Activities and Stories

Donna Farland-Smith and Julie Thomas | GRADES K–2

© 2018; ISBN: 978-1-68140-316-8; 320 pages
#: **PB423X2** E-book #: **PKEB423X2** Book/E-book Set #: **PKE423X2**

Eureka! Grade 3–5 Science Activities and Stories

Donna Farland-Smith and Julie Thomas | GRADES 3–5

© 2017; ISBN: 978-1-68140-257-4; 374 pages
#: **PB423X1** E-book #: **PKEB423X1** Book/E-book Set #: **PKE423X1**

Eureka! Book Collections

For each *Eureka!* volume, NSTA offers a collection of the related children's trade books. The books fit inside a zippered canvas tote bag with a screened image of the book cover on it. This bundled set is a great value, especially compared with the retail cost (and effort) of buying the books separately. The Collection includes much-admired volumes that will become frequently enjoyed additions to your school's science and reading resources.

For a full list of the books available in each Collection, visit *www.nsta.org/publications/press/eureka.aspx.*

Best Value: Trade book Collection + *Eureka, Again!* book
#: **PAK423X2** Members: **$399.96** Non-members: **$499.95**

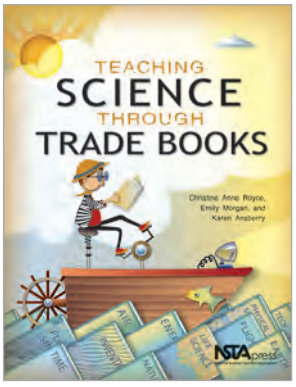
Trade book Collection only
#: **OK423X2** Members: **$383.96** Non-members: **$479.95**

Best Value: Trade book Collection + *Eureka!* book
#: **PAK423X1** Members: **$399.96** Non-members: **$499.95**

Trade book Collection only
#: **OK423X1** Members: **$383.96** Non-members: **$479.95**

Teaching Science Through Trade Books

Christine Anne Royce, Emily Morgan, and Karen Ansberry
AN NSTA PRESS JOURNALS COLLECTION, GRADES K–6



This collection of popular "Teaching Through Trade Books" columns from NSTA's award-winning journal *Science and Children* will help you engage reluctant scientists (through books) while also enticing struggling readers (through science). Each lesson includes a targeted K–3 activity and a grade 4–6 activity. If you are a fan of *Picture-Perfect Science Lessons* (see pp. 20–23), you'll love the convenience of having these ready-to-teach lessons in one handy volume.

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

#: **PB315X**	Members: **$27.96**	Non-members: **$34.95**
E-book #: **PKEB315X**	Members: **$20.97**	Non-members: **$26.21**
Book/E-book Set #: **PKE315X**	Members: **$33.55**	Non-members: **$41.94**

Inquiring Scientists, Inquiring Readers

Using Nonfiction to Promote Science Literacy

Jessica Fries-Gaither and Terry Shiverdecker | NSTA PRESS, GRADES 3–8

These resources will help you integrate inquiry-based science with literacy. A learning-cycle framework helps students deepen their understanding with data collection and analysis before reading about a concept. Investigations support standards and encompass life, physical, and Earth and space sciences.

Inquiring Scientists, Inquiring Readers (Grades 3–5)

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

#: **PB325X** E-book #: **PKEB325X** Book/E-book Set #: **PKE325X**

Inquiring Scientists, Inquiring Readers in Middle School (Grades 6–8)

● **REVERE AWARD WINNER!**

© 2017; ISBN: 978-1-68140-003-7; 384 pages

#: **PB325X2** E-book #: **PKEB325X2** Book/E-book Set #: **PKE325X2**

Book
Members: **$31.96**
Non-members: **$39.95**

E-book
Members: **$23.97**
Non-members: **$29.96**

Book/E-book
Members: **$38.35**
Non-members: **$47.94**

Creative Writing in Science

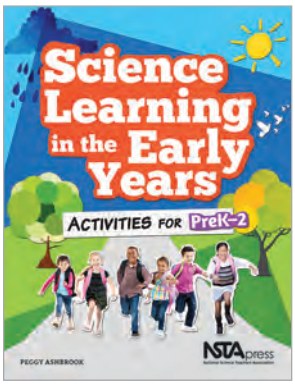
Activities That Inspire

Katie Coppens | NSTA PRESS, GRADES 3–12

Inspire students to be better writers while you enjoy new strategies to assess their understanding. This book features activities that integrate writing with content in life science, Earth and space science, physical science, and engineering.

© 2016; ISBN: 978-1-941316-35-1; 140 pages

#: **PB411X**	Members: **$19.96**	Non-members: **$24.95**
E-book #: **PKEB411X**	Members: **$14.97**	Non-members: **$18.71**
Book/E-book Set #: **PKE411X**	Members: **$23.95**	Non-members: **$29.94**



Science Learning in the Early Years

Activities for PreK–2

Peggy Ashbrook | NSTA PRESS, GRADES PREK–2

These 40-plus classroom activities for grades preK–2 will show you how to go beyond demonstrations to experiences that actually get children engaged. The activities focus on important science concepts, connect to the *NGSS*, and highlight safety concerns. ● **REVERE AWARD WINNER!**

© 2016; ISBN: 978-1-941316-33-7; 376 pages

#: **PB407X**	Members: **$26.36**	Non-members: **$32.95**
E-book #: **PKEB407X**	Members: **$19.77**	Non-members: **$24.71**
Book/E-book Set #: **PKE407X**	Members: **$31.63**	Non-members: **$39.54**

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 learn about scientific concepts through the use of Predict, Observe, Explain sequences. Accompanying the activities are worksheets, scientific explanations, sample 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

#: **PB281X**	Members: **$27.96**	Non-members: **$34.95**
E-book #: **PKEB281X**	Members: **$20.97**	Non-members: **$26.21**
Book/E-book Set #: **PKE281X**	Members: **$33.55**	Non-members: **$41.94**

"Science books are important in my classroom because I use them with authentic inquiry-based activities, and this supports my students' learning of science, enhances science vocabulary, counteracts scientific misconceptions, and promotes literary skills in explaining, justifying, and summarizing."

—NSTA Press reader Doreen B.

SCIENCE FAIR WARM-UP

» LEARNING THE PRACTICE OF SCIENTISTS «

John Haysom | NSTA PRESS, GRADES 5–12

Enjoy dread-free science fairs with help from the curriculum materials in this series. Three grade-appropriate student editions offer original investigations on topics ranging from paper helicopters to Archimedes pumps to acid rain. Underpinning the investigations are problem-solving exercises to help students develop the inquiry skills to carry the projects through. The separate Teachers Guide provides detailed lesson plans and advice for adapting all the student material to your classes' needs.

Thoroughly field-tested, the books save you time while helping you meet your teaching goals. The student editions are organized to grow more challenging with each book and encourage independent study as students gain experience. The series is based on the constructivist view that makes students responsible for their own learning and aligns with science standards and *A Framework for K–12 Science Education*. *Science Fair Warm-Up* will prepare your students and you for science fair success. But even if you don't have a science fair in your future, the material can help your students become more proficient with scientific research.

© 2013; ISBN: 978-1-936959-20-4; 71 pages (Grades 5–8)

E-book #: **PKEB328X4**	Members: **$7.77**	Non-members: **$9.71**

© 2013; ISBN: 978-1-936959-21-1; 65 pages (Grades 7–10)

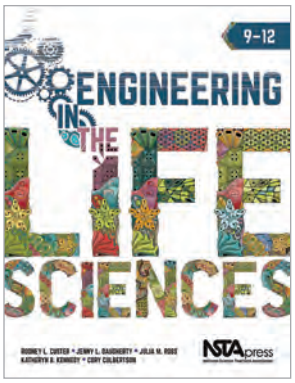
#: **PB328X3**	Members: **$10.36**	Non-members: **$12.95**
E-book #: **PKEB328X3**	Members: **$7.77**	Non-members: **$9.71**
Book/E-book Set #: **PKE328X3**	Members: **$12.43**	Non-members: **$15.54**

© 2013; ISBN: 978-1-936959-22-8; 75 pages (Grades 8–12)

#: **PB328X1**	Members: **$10.36**	Non-members: **$12.95**
E-book #: **PKEB328X1**	Members: **$7.77**	Non-members: **$9.71**
Book/E-book Set #: **PKE328X1**	Members: **$12.43**	Non-members: **$15.54**

© 2013; ISBN: 978-1-936959-23-5; 69 pages (Teachers Guide)

#: **PB328X2**	Members: **$12.76**	Non-members: **$15.95**
E-book #: **PKEB328X2**	Members: **$9.57**	Non-members: **$11.96**
Book/E-book Set #: **PKE328X2**	Members: **$15.31**	Non-members: **$19.14**



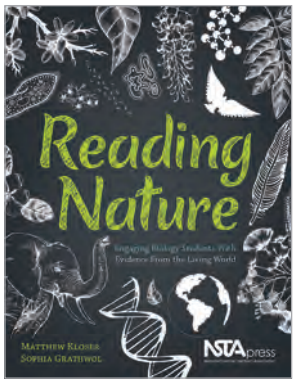
Engineering in the Life Sciences, 9–12

Rodney L. Custer, Jenny L. Daugherty, Julia M. Ross, Katheryn B. Kennedy, and Cory Culbertson
NSTA PRESS, GRADES 9–12

The six standards-based lessons in this book show how to infuse engineering concepts into existing courses. It also provides wide-ranging material from each of the major content areas in biological sciences, including structures and processes, ecosystems, heredity, and biological evolution. Spark your high school students' interest with lesson titles such as "Designer DNA," "Ecosystem Board Game," and "B-pocalypse." Inspired by extensive field testing, the authors made the book easy to use in diverse settings by supplementing the lessons with detailed support materials, teaching tips, connections to standards, and case studies about how engineering concepts and science intersect to address human needs.

© 2018; ISBN: 978-1-68140-477-6; 340 pages

#: **PB433X**	Members: **$31.96**	Non-members: **$39.95**
E-book #: **PKEB433X**	Members: **$23.97**	Non-members: **$29.96**
Book/E-book Set #: **PKE433X**	Members: **$38.35**	Non-members: **$47.94**



Reading Nature

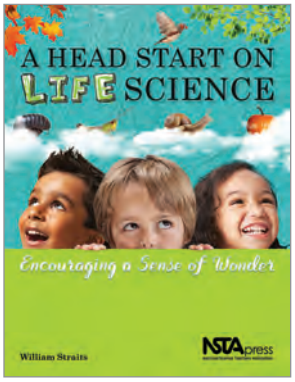
Engaging Biology Students With Evidence From the Living World

Matthew Kloser and Sophia Grathwol | NSTA PRESS, GRADES 6–12

This unique supplemental resource reflects the true "endeavor of science," with its ingenious experiments, frustrating dead ends, and incredible finds that eventually contribute to our understanding of living things. It draws on and adapts peer-reviewed articles from scientific journals that tie into one of five disciplinary core ideas—from molecules to organisms, ecosystems, heredity, biological evolution, and human impacts on Earth systems. With its supplementary teacher questions and prompts, this resource is both practical and flexible.

© 2018; ISBN: 978-1-68140-280-2; 199 pages

#: **PB427X**	Members: **$19.96**	Non-members: **$24.95**
E-book #: **PKEB427X**	Members: **$14.97**	Non-members: **$18.71**
Book/E-book Set #: **PKE427X**	Members: **$23.95**	Non-members: **$29.94**



A Head Start on Life Science

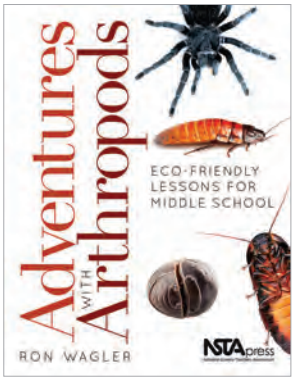
Encouraging a Sense of Wonder

William Straits | NSTA PRESS, GRADES PREK–2

The 24 inquiry-based lessons in this lively collection show you how to nurture curiosity in the youngest scientists, with a focus on animals, plants, and nature walks, and include **at-home activities** written in English and Spanish. See page 8 for the *Head Start* volume that includes activities for all science disciplines.

© 2018; ISBN: 978-1-68140-348-9; 209 pages

#: **PB428X**	Members: **$30.36**	Non-members: **$37.95**
E-book #: **PKEB428X**	Members: **$22.77**	Non-members: **$28.46**
Book/E-book Set #: **PKE428X**	Members: **$36.43**	Non-members: **$45.54**



Adventures With Arthropods

Eco-Friendly Lessons for Middle School

Ron Wagler | NSTA PRESS, GRADES 6–8

This book will help you and your students get up close and personal with amazing arthropods such as tarantulas, roly polys, and Madagascar hissing cockroaches. It provides 26 middle school lessons that teach students everything from anatomy, growth, and behavior to eating preferences and environmental needs of three arthropod groups. You'll also learn which arthropods are classroom-safe and what's involved in caring for them humanely.

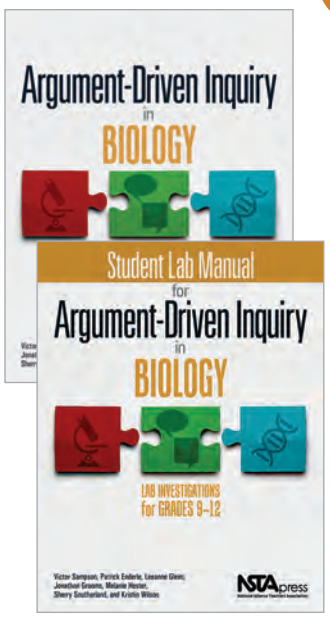
© 2018; ISBN: 978-1-68140-305-2; 110 pages

#: **PB435X**	Members: **$22.36**	Non-members: **$27.95**
E-book #: **PKEB435X**	Members: **$16.77**	Non-members: **$20.96**
Book/E-book Set #: **PKE435X**	Members: **$26.83**	Non-members: **$33.54**

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



The 27 field-tested labs cover molecules and organisms, ecosystems, heredity, and biological evolution. Supporting the *NGSS* and *Common Core*, the investigations are more authentic than traditional labs and enable students to practice how to read, write, speak, and use math in the context of science.

© 2014; ISBN: 978-1-938946-20-2; 418 pages

#: **PB349X1**	Members: **$38.36**	Non-members: **$47.95**
E-book #: **PKEB349X1**	Members: **$28.77**	Non-members: **$35.96**
Book/E-book Set #: **PKE349X1**	Members: **$46.03**	Non-members: **$57.54**

Student Lab Manual for Argument-Driven Inquiry in Biology

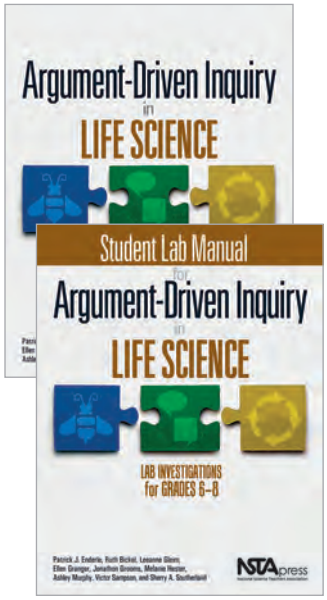
© 2016; ISBN: 978-1-68140-014-3; 256 pages

#: **PB349X1S**	Members: **$15.96**	Non-members: **$19.95**
E-book #: **PKEB349X1S**	Members: **$11.97**	Non-members: **$14.96**
Book/E-book Set #: **PKE349X1S**	Members: **$19.15**	Non-members: **$23.94**

Argument-Driven Inquiry in Life Science
Lab Investigations for Grades 6–8

Patrick J. Enderle, Ruth Bickel, Leeanne Gleim, Ellen Granger, Jonathon Grooms, Melanie Hester, Ashley Murphy, Victor Sampson, and Sherry A. Southerland

NSTA PRESS, GRADES 6–8



These 20 field-tested labs help students learn how to read, write, speak, and use math in the context of science. Students design methods, develop models, collect and analyze data, and critique information. The labs cover topics related to molecules and organisms, ecosystems, biological evolution, and heredity. Labs include student pages, teacher notes, and checkout questions.

© 2015; ISBN: 978-1-938946-24-0; 386 pages

#: **PB349X3**	Members: **$38.36**	Non-members: **$47.95**
E-book #: **PKEB349X3**	Members: **$28.77**	Non-members: **$35.96**
Book/E-book Set #: **PKE349X3**	Members: **$46.03**	Non-members: **$57.54**

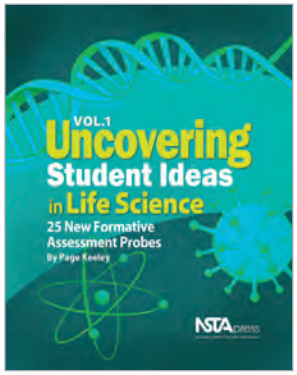
Student Lab Manual for Argument-Driven Inquiry in Life Science

© 2016; ISBN: 978-1-68140-015-0; 189 pages

#: **PB349X3S**	Members: **$15.96**	Non-members: **$19.95**
E-book #: **PKEB349X3S**	Members: **$11.97**	Non-members: **$14.96**
Book/E-book Set #: **PKE349X3S**	Members: **$19.15**	Non-members: **$23.94**

Uncovering Student Ideas in Life Science, Volume 1
25 New Formative Assessment Probes

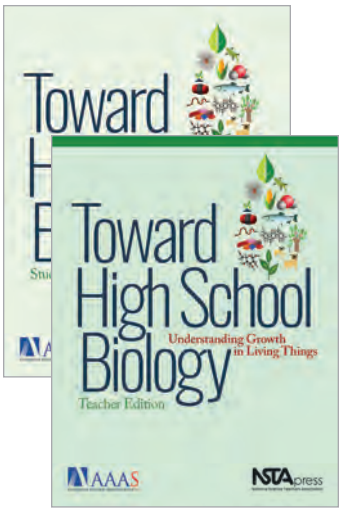
Page Keeley | NSTA PRESS, GRADES K–12



Author Page Keeley provides teachers with her popular formula for uncovering and addressing preconceptions in this book. It covers life and diversity; structure and function; life processes and needs of living things; and more. Each probe is supported by Teacher Notes, providing background information, related concepts, explanations, related ideas in national science standards, research on misconceptions, and suggestions for instruction and assessment. ● **REVERE AWARD WINNER!**

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

#: **PB291X1**	Members: **$25.56**	Non-members: **$31.95**
E-book #: **PKEB291X1**	Members: **$19.17**	Non-members: **$23.96**
Book/E-book Set #: **PKE291X1**	Members: **$30.67**	Non-members: **$38.34**



Toward High School Biology

AAAS/Project 2061 | NSTA PRESS, GRADES 6–8

This 19-lesson unit connects core ideas about chemical reactions to the biological phenomena of growth and repair in plants and animals. Legos, ball-and-stick models, videos, and a variety of print manipulatives help students overcome many common conceptual difficulties and provide the foundation in biochemistry they will need for high school biology and beyond.

Toward High School Biology, Teacher Edition

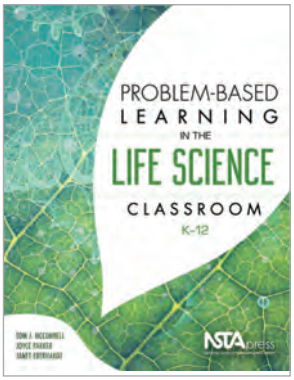
© 2017; ISBN: 978-1-68140-560-5; 427 pages

#: **PB434XT**	Members: **$35.96**	Non-members: **$44.95**
E-book #: **PKEB434XT**	Members: **$26.97**	Non-members: **$33.71**
Book/E-book Set #: **PKE434XT**	Members: **$43.15**	Non-members: **$53.94**

Toward High School Biology, Student Edition

© 2017; ISBN: 978-1-68140-443-1; 182 pages

#: **PB434XS**	Members: **$15.96**	Non-members: **$19.95**
E-book #: **PKEB434XS**	Members: **$11.97**	Non-members: **$14.96**
Book/E-book Set #: **PKE434XS**	Members: **$19.15**	Non-members: **$23.94**



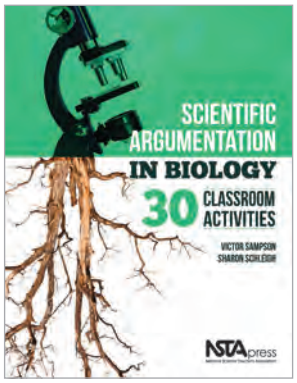
Problem-Based Learning in the Life Science Classroom, K–12

Tom J. McConnell, Joyce M. Parker, and Janet Eberhardt | NSTA PRESS, GRADES K–12

Problem-Based Learning in the Life Science Classroom, K–12 will help you prompt learners to immerse themselves in analyzing problems, asking questions, posing hypotheses, finding information, and constructing a proposed solution. The book's 13 lessons cover life cycles, ecology, genetics, and cellular metabolism. See page 14 for an overview of the *Problem-Based Learning* series.

© 2016; ISBN: 978-1-941316-20-7; 245 pages

#: **PB408X2**	Members: **$27.96**	Non-members: **$34.95**
E-book #: **PKEB408X2**	Members: **$20.97**	Non-members: **$26.21**
Book/E-book Set #: **PKE408X2**	Members: **$33.55**	Non-members: **$41.94**



Scientific Argumentation in Biology

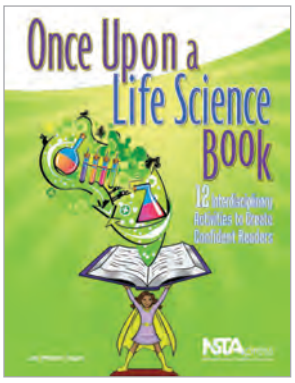
30 Classroom Activities

Victor Sampson and Sharon Schleigh | NSTA PRESS, GRADES 6–12

Scientific Argumentation in Biology combines theory, practice, and biological content. This book starts by giving you solid background in why students need to be able to go beyond expressing mere opinions when making research-related biology claims. Then, it provides 30 field-tested activities. Detailed teacher notes suggest specific ways to use the activities to enrich and supplement (not replace) what you're doing in class already.

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

#: **PB304X**	Members: **$31.96**	Non-members: **$39.95**
E-book #: **PKEB304X**	Members: **$23.97**	Non-members: **$29.96**
Book/E-book Set #: **PKE304X**	Members: **$38.35**	Non-members: **$47.94**



Once Upon a Life Science Book

12 Interdisciplinary Activities to Create Confident Readers

Jodi Wheeler-Toppen | NSTA PRESS, GRADES 6–8

This book starts with advice on teaching reading-comprehension strategies. Then, the 12 content chapters give you hands-on science activities; readings that cover important science concepts and support the *NGSS*; writing activities that prompt students to connect what they did with what they read; and assessment exercises to give you feedback on what your students are learning. Topics include cell cycle, food chains, genetics, plant structure and function, and more!

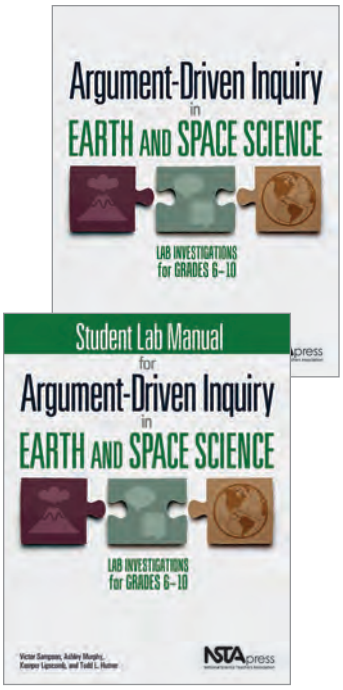
© 2010; 978-1-935155-09-6; 161 pages

#: **PB275X**	Members: **$18.36**	Non-members: **$22.95**
E-book #: **PKEB275X**	Members: **$13.77**	Non-members: **$17.21**
Book/E-book Set #: **PKE275X**	Members: **$22.03**	Non-members: **$27.54**

Argument-Driven Inquiry in Earth and Space Science

Lab Investigations for Grades 6–10

Victor Sampson, Ashley Murphy, Kemper Lipscomb, and Todd L. Hutner | NSTA PRESS, GRADES 6–10



If you're looking for labs that cover Earth and space science, appeal to middle and high school students, *and* use argument-driven inquiry (ADI), your search is over. *Argument-Driven Inquiry in Earth and Space Science* provides 23 field-tested labs that cover the universe, Earth, and weather. It also helps you make the instructional shift to ADI. This innovative approach to inquiry prompts students to use argument to construct, support, and evaluate scientific claims.

The book starts with guidance on how to use ADI. Then it provides labs that cover five disciplinary core ideas in Earth and space science: Earth's place in the universe, the history of Earth, Earth's systems, weather and climate, and Earth and human activity. Your students will explore important content and learn scientific practices. They can investigate everything from how the seasons work to what causes geological formations and even consider where NASA should next send a space probe to look for signs of life.

This volume is part of NSTA's teacher-friendly ADI series (pp. 16–17). The authors are veteran teachers who know the importance of connecting all investigations to today's standards—and of providing the information and instructional materials you need in one useful resource that combines literacy, math, and science. Use these investigations to help students develop science proficiency by figuring out how and why things work, not just learning theories and laws.

© 2018; ISBN: 978-1-68140-373-1; 612 pages

#: **PB349X6**	Members: **$38.36**	Non-members: **$47.95**
E-book #: **PKEB349X6**	Members: **$28.77**	Non-members: **$35.96**
Book/E-book Set #: **PKE349X6**	Members: **$46.03**	Non-members: **$57.54**

Student Lab Manual for Argument-Driven Inquiry in Earth and Space Science

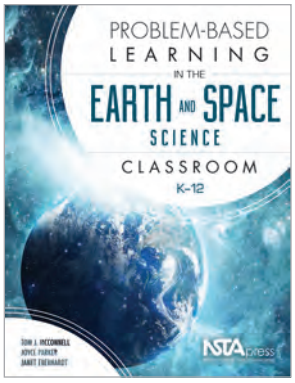
The manual includes everything students need to complete the investigations.

© 2018; ISBN: 978-1-68140-598-8; 284 pages

#: **PB349X6S**	Members: **$15.96**	Non-members: **$19.95**
E-book #: **PKEB349X6S**	Members: **$11.97**	Non-members: **$14.96**
Book/E-book Set #: **PKE349X6S**	Members: **$19.15**	Non-members: **$23.94**

Problem-Based Learning in the Earth and Space Science Classroom, K–12

Tom J. McConnell, Joyce Parker, and Janet Eberhardt | NSTA PRESS, GRADES K–12



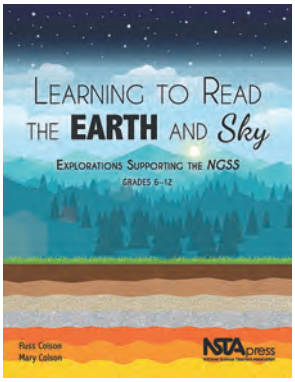
The scenarios cover Earth's landforms and water, the rock cycle and plate tectonics, weather, and astronomy. They'll prompt students to work collaboratively on analyzing problems, asking questions, posing hypotheses, and constructing solutions. In addition to complete lesson plans that support the *NGSS*, they offer extensive examples, instructions, and tips. (See more about the series on p. 14.)

© 2017; ISBN: 978-1-941316-19-1; 263 pages

#: **PB408X1**	Members: **$27.96**	Non-members: **$34.95**
E-book #: **PKEB408X1**	Members: **$20.97**	Non-members: **$26.21**
Book/E-book Set #: **PKE408X1**	Members: **$33.55**	Non-members: **$41.94**

"I truly believe that teachers will both like and use [this book]. Implementing PBL is difficult ... few curriculum guides are available to support their efforts."

—Peggy Ertmer, Purdue University



Learning to Read the Earth and Sky

Explorations Supporting the NGSS, Grades 6–12

Russ Colson and Mary Colson | NSTA PRESS, GRADES 6–12

This book offers inspiration for reaching beyond prepared curricula, engaging in discovery along with your students, and using your lessons to support the *NGSS*. The book provides examples of labs and activities you and your students can do together and guidance on how to translate the core ideas of the *NGSS* into specific examples.

© 2017; ISBN: 978-1-941316-23-8; 426 pages

#: **PB409X**	Members: **$35.96**	Non-members: **$44.95**
E-book #: **PKEB409X**	Members: **$26.97**	Non-members: **$33.71**
Book/E-book Set #: **PKE409X**	Members: **$43.15**	Non-members: **$53.94**

Big Data, Small Devices

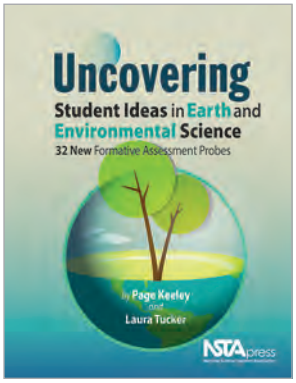
Investigating the Natural World Using Real-Time Data

Donna Governor, Michael Bowen, and Eric Brunsell | NSTA PRESS, GRADES 3–12

This book is designed for Earth and environmental science teachers who want to help students tap into, organize, and deploy large data sets via their devices to investigate the world around them. Using the many available websites and free apps, students can learn to detect patterns among phenomena related to the atmosphere, biosphere, geosphere, hydrosphere, and seasons.

© 2017; ISBN: 978-1-68140-276-5; 262 pages

#: **PB421X**	Members: **$35.96**	Non-members: **$44.95**
E-book #: **PKEB421X**	Members: **$26.97**	Non-members: **$33.71**
Book/E-book Set #: **PKE421X**	Members: **$43.15**	Non-members: **$53.94**



Uncovering Student Ideas in Earth and Environmental Science

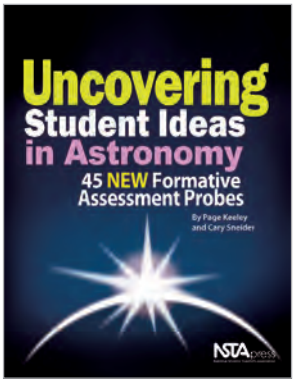
32 New Formative Assessment Probes

Page Keeley and Laura Tucker | NSTA PRESS, GRADES 3–12

Authors Page Keeley and Laura Tucker give you 32 engaging questions, or probes, that can reveal what your students already know—or think they know—about core Earth and environmental science concepts. These probes are organized into four sections: land and water; water cycle, weather, and climate; Earth history, weathering and erosion, and plate tectonics; and natural resources, pollution, and human impact. This 10th installment in the bestselling *Uncovering Student Ideas in Science* series (see pp. 18–19) offers field-tested teacher materials that provide science background and link to national standards.

© 2016; ISBN: 978-1-938946-47-9; 180 pages

#: **PB355X**	Members: **$30.36**	Non-members: **$37.95**
E-book #: **PKEB355X**	Members: **$22.77**	Non-members: **$28.46**
Book/E-book Set #: **PKE355X**	Members: **$36.43**	Non-members: **$45.54**



Uncovering Student Ideas in Astronomy

45 New Formative Assessment Probes

Page Keeley and Cary Sneider | NSTA PRESS, GRADES K–12

The 45 astronomy probes provide situations that will pique your students' interest while helping you understand how your students think about key ideas related to the nature of planet Earth, the Sun-Earth system, the Moon, the solar system, and the universe.

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

#: **PB307X**	Members: **$30.36**	Non-members: **$37.95**
E-book #: **PKEB307X**	Members: **$22.77**	Non-members: **$28.46**
Book/E-book Set #: **PKE307X**	Members: **$36.43**	Non-members: **$45.54**

Solar Science
Exploring Sunspots, Seasons, Eclipses, and More

Dennis Schatz and Andrew Fraknoi | NSTA PRESS, GRADES 5–8

The more than 30 hands-on activities cover the Sun's motions, space weather caused by the Sun, and much more. The book contains ideas for writing projects; grade-appropriate math examples; and connections to music, art, fiction, and history. It also supports the *NGSS* and connects to the *Common Core State Standards*. ● **AM&P GOLD EXCEL AWARD WINNER!**

© 2016; ISBN: 978-1-941316-07-8; 360 pages

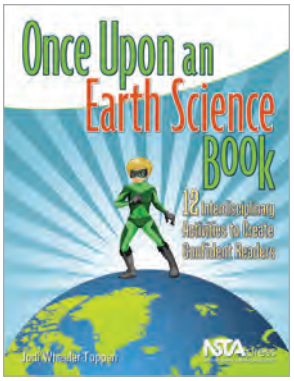
#: **PB403X**	Members: **$31.96**	Non-members: **$39.95**
E-book #: **PKEB403X**	Members: **$23.97**	Non-members: **$29.96**
Book/E-book Set #: **PKE403X**	Members: **$38.35**	Non-members: **$47.94**

"The book is gloriously illustrated and beautifully produced. The high-quality imagery from NASA completely engages both teacher and student. The activities chosen are the best of the best, coming from years of experience and use. Most are standalone and could be used in informal educational settings. Personally, I have used many of these activities for years, in both my NASA education work and in a 4H Astronomy Project (ages 9–19), with wonderful success."

—Deborah Scherrer, Stanford Solar Center

Once Upon an Earth Science Book
12 Interdisciplinary Activities to Create Confident Readers

Jodi Wheeler-Toppen | NSTA PRESS, GRADES 6–8



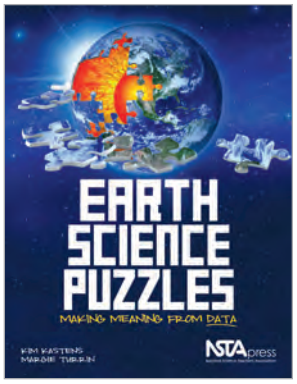
This book starts with advice on teaching reading comprehension strategies. Then, the 12 content chapters give you hands-on science activities, readings that cover important Earth science concepts and support the *NGSS*, writing activities, and assessment exercises. (See p. 46 for the life science volume.)

© 2016; ISBN: 978-1-941316-09-2; 185 pages

#: **PB275X2**	Members: **$20.76**	Non-members: **$25.95**
E-book #: **PKEB275X2**	Members: **$15.57**	Non-members: **$19.46**
Book/E-book Set #: **PKE275X2**	Members: **$24.91**	Non-members: **$31.14**

Earth Science Puzzles
Making Meaning From Data

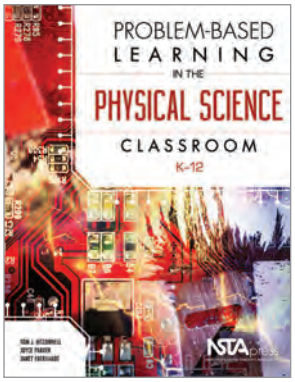
Kim Kastens and Margie Turrin | NSTA PRESS, GRADES 8–12



This activity book centers on six "data puzzles" that foster critical-thinking skills in students and support science and math learning. Each puzzle is supported by an extensive Pedagogical Content Knowledge document with background information, required skills, common misconceptions, answers to student questions, and a bank of resources to further examine topics. ● **REVERE AWARD WINNER!**

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

#: **PB286X**	Members: **$22.36**	Non-members: **$27.95**
E-book #: **PKEB286X**	Members: **$16.77**	Non-members: **$20.96**
Book/E-book Set #: **PKE286X**	Members: **$26.83**	Non-members: **$33.54**



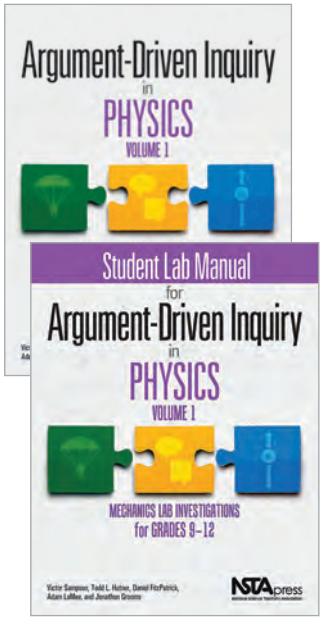
Problem-Based Learning in the Physical Science Classroom, K–12

Tom J. McConnell, Joyce Parker, and Janet Eberhardt | NSTA PRESS, GRADES K–12

This book will help your students truly understand concepts such as motion, energy, and magnetism in true-to-life contexts. It offers a comprehensive description of why, how, and when to implement problem-based learning (PBL) in your curriculum. Its 14 developmentally appropriate lessons cover forces and motion, energy transformation, and electricity and magnetism. The lessons' inviting titles include "Cartoon Cliff Escape" and "Rube Goldberg Machine." This volume is the third in NSTA's PBL series, which also covers Earth and space science and life science (p. 14). In addition to complete lesson plans that support the *Next Generation Science Standards*, the book offers extensive examples, instructions, and tips for implementing open-ended inquiry. It also provides rich, authentic problems you can use as is or adapt.

© 2018; ISBN: 978-1-941316-21-4; 271 pages

#: **PB408X3**	Members: **$27.96**	Non-members: **$34.95**
E-book #: **PKEB408X3**	Members: **$20.97**	Non-members: **$26.21**
Book/E-book Set #: **PKE408X3**	Members: **$33.55**	Non-members: **$41.94**



Argument-Driven Inquiry in Physics, Volume 1

Mechanics Lab Investigations for Grades 9–12

Victor Sampson, Todd L. Hutner, Daniel FitzPatrick, Adam LaMee, and Jonathon Grooms

NSTA PRESS, GRADES 9–12

Like the NSTA Press bestsellers for high school biology and chemistry (see p. 16), this book helps you build your students' science proficiency. *Argument-Driven Inquiry in Physics, Volume 1* focuses on mechanics and has two parts. The first part describes the ADI instructional model and the components of ADI lab investigations. The second part provides 23 field-tested labs covering a wide variety of topics related to forces and interactions, energy, work, and power. Some investigations are introductory labs that expose students to new content; others are application labs to help students try out a theory, law, or unifying concept. All are easy to use, thanks to teacher notes, student handouts, and checkout questions, and all align with the *NGSS* and the *Common Core State Standards*.

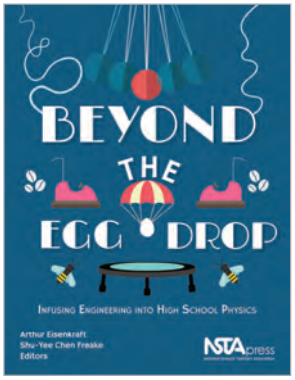
© 2017; ISBN: 978-1-68140-513-1; 564 pages

#: **PB349X5V1**	Members: **$38.36**	Non-members: **$47.95**
E-book #: **PKEB349X5V1**	Members: **$28.77**	Non-members: **$35.96**
Book/E-book Set #: **PKE349X5V1**	Members: **$46.03**	Non-members: **$57.54**

Student Lab Manual for Argument-Driven Inquiry in Physics, Volume 1

© 2017; ISBN: 978-1-68140-579-7; 249 pages

#: **PB349X5V1S**	Members: **$15.96**	Non-members: **$19.95**
E-book #: **PKEB349X5V1S**	Members: **$11.97**	Non-members: **$14.96**
Book/E-book Set #: **PKE349X5V1S**	Members: **$19.15**	Non-members: **$23.94**



Beyond the Egg Drop

Infusing Engineering Into High School Physics

Arthur Eisenkraft and Shu-Yee Chen Freake, Editors | NSTA PRESS, GRADES 9–12

Problem: You're eager to expand your physics curriculum and engage your students with engineering content, but you don't know how. Solution: Use the approach and lessons in *Beyond the Egg Drop* to *infuse* engineering into what you're already teaching, without sacrificing time for teaching physics concepts. In addition to a thorough discussion on the rationale, justification, meaning, and implementation of integrating engineering into your science curriculum, this book provides 24 flexible, engineering-infused physics lessons that cover mechanics, optics, electricity, and thermodynamics. Lessons also include examples of student work; incorporate strategies for assessment, teaching, and student learning; and connect to the *Framework* and the *NGSS*. The lessons in *Beyond the Egg Drop* will make it easier to include engineering concepts and skills without having to restructure your existing physics curriculum.

© 2018; ISBN: 978-1-68140-035-8; 473 pages

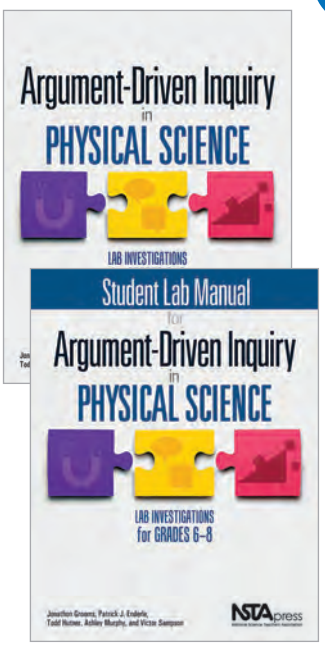
# **PB432X**	Members: **$35.96**	Non-members: **$44.95**
E-book #: **PKEB432X**	Members: **$26.97**	Non-members: **$33.71**
Book/E-book Set #: **PKE432X**	Members: **$43.15**	Non-members: **$53.96**

Argument-Driven Inquiry in Physical Science

Lab Investigations for Grades 6–8

Jonathon Grooms, Patrick J. Enderle, Todd Hutner, Ashley Murphy, and Victor Sampson

NSTA PRESS, GRADES 6–8



Argument-Driven Inquiry in Physical Science will make middle school labs much more active and engaging. Its 22 investigations teach students to use argument to construct, support, and evaluate scientific claims. The labs cover four core ideas in physical science: matter, motion and forces, energy, and waves. Students dig into important content and discover scientific practices as they figure out everything from how thermal energy works to what could make an action figure jump higher.

Easy-to-use features include reproducible student pages, teacher notes, checkout questions, and standards-alignment matrices. Its labs are versatile enough to introduce a topic or to act as a unit capstone. No matter how you use these authentic experiences, they'll change the focus of your lab instruction. (See more about the series on pp. 16–17.)

© 2016; ISBN: 978-1-938946-23-3; 464 pages

#: **PB349X4**	Members: **$38.36**	Non-members: **$47.95**
E-book #: **PKEB349X4**	Members: **$28.77**	Non-members: **$35.96**
Book/E-book Set #: **PKE349X4**	Members: **$46.03**	Non-members: **$57.54**

Student Lab Manual for Argument-Driven Inquiry in Physical Science

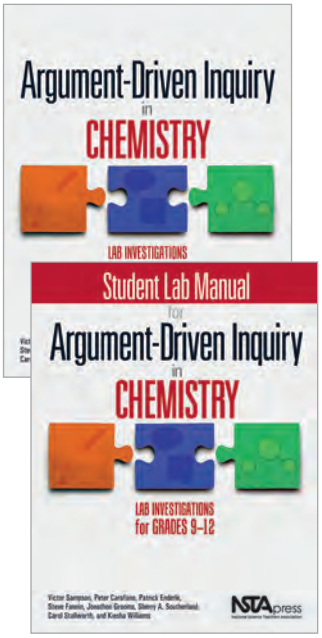
© 2016; ISBN: 978-1-68140-526-1; 214 pages

#: **PB349X4S**	Members: **$15.96**	Non-members: **$19.95**
E-book #: **PKEB349X4S**	Members: **$11.97**	Non-members: **$14.96**
Book/E-book Set #: **PKE349X4S**	Members: **$19.15**	Non-members: **$23.94**

Argument-Driven Inquiry in Chemistry

Lab Investigations for Grades 9–12

Victor Sampson, Peter Carafano, Patrick Enderle, Steve Fannin, Jonathon Grooms, Sherry A. Southerland, Carol Stallworth, and Kiesha Williams | NSTA PRESS, GRADES 9–12



Transform your chemistry labs with this guide to argument-driven inquiry. Students will learn to identify questions, develop models, collect and analyze data, generate arguments, and critique and revise reports. The 30 field-tested labs cover a broad range of topics related to chemical reactions and matter's structure and properties. The book contains introduction labs to acquaint students with new content and application labs to try out a theory, law, or unifying concept. All labs include reproducible student pages, teacher notes, and checkout questions.

© 2014; ISBN: 978-1-938946-22-6; 530 pages

#: **PB349X2**	Members: **$38.36**	Non-members: **$47.95**
E-book #: **PKEB349X2**	Members: **$28.77**	Non-members: **$35.96**
Book/E-book Set #: **PKE349X2**	Members: **$46.03**	Non-members: **$57.54**

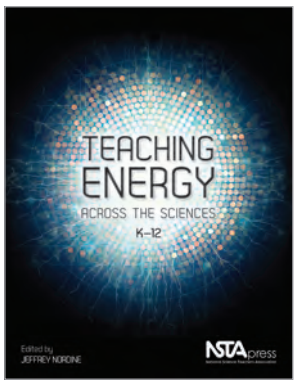
Student Lab Manual for Argument-Driven Inquiry in Chemistry

© 2016; ISBN: 978-1-68140-013-6; 266 pages

#: **PB349X2S**	Members: **$15.96**	Non-members: **$19.95**
E-book #: **PKEB349X2S**	Members: **$11.97**	Non-members: **$14.96**
Book/E-book Set #: **PKE349X2S**	Members: **$19.15**	Non-members: **$23.94**

"I've used **Argument-Driven Inquiry in Chemistry** *in my class to create three projects that have proven to be top notch! My students enjoyed the project, and most importantly, mastered more of the content than ever before. I've always been amazed at the level of quality of all the NSTA material. I want to get my hands on even more things to increase the learning and engagement in my class."*

—NSTA Press reader Ed G.



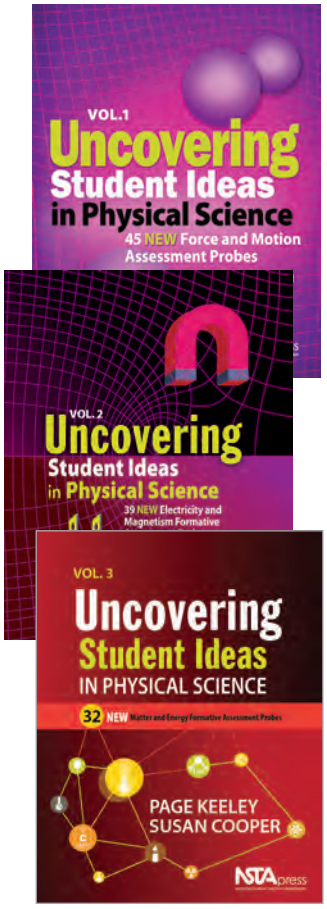
Teaching Energy Across the Sciences, K–12

Jeffrey Nordine, Editor | NSTA PRESS, GRADES K–12

This book gives you the strategies and tools you need to help your students understand energy as a concept that cuts across all sciences. The result will be a clear lens for interpreting how energy works in many contexts, both inside and outside the classroom. *Teaching Energy Across the Sciences, K–12* is accessible to teachers with varying science backgrounds.

© 2016; ISBN: 978-1-941316-01-6; 216 pages

#: **PB401X**	Members: **$27.96**	Non-members: **$34.95**
E-book #: **PKEB401X**	Members: **$20.97**	Non-members: **$26.21**
Book/E-book Set #: **PKE401X**	Members: **$33.55**	Non-members: **$41.94**



Uncovering Student Ideas in Physical Science, Volumes 1, 2, and 3

Page Keeley | NSTA PRESS, GRADES K–12

Volume 1 provides 45 formative assessment probes on topics related to force and motion. Volume 2 offers 39 additional probes covering electricity and magnetism. The 32 new probes in volume 3 cover matter and energy. By helping you detect students' misconceptions and then make sound instructional decisions to address them, these books have the potential to transform your teaching. Volumes 1 and 2 are coauthored by Rand Harrington. Volume 3 is coauthored by Susan Cooper. Volume 1 was a ● **REVERE AWARD WINNER!**

Volume 1, 45 New Force and Motion Assessment Probes

© 2010; 978-1-935155-18-8; 214 pages

#: **PB274X1**	Members: **$30.36**	Non-members: **$37.95**
E-book #: **PKEB274X1**	Members: **$22.77**	Non-members: **$28.46**
Book/E-book Set #: **PKE274X1**	Members: **$36.43**	Non-members: **$45.54**

Volume 2, 39 New Electricity and Magnetism Formative Assessment Probes

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

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E-book #: **PKEB274X2**	Members: **$22.77**	Non-members: **$28.46**
Book/E-book Set #: **PKE274X2**	Members: **$36.43**	Non-members: **$45.54**

Volume 3, 32 New Matter and Energy Formative Assessment Probes

© 2014; ISBN: 978-1-68140-604-6; 224 pages

#: **PB274X3**	Members: **$30.36**	Non-members: **$37.95**
E-book #: **PKEB274X3**	Members: **$22.77**	Non-members: **$28.46**
Book/E-book Set #: **PKE274X3**	Members: **$36.43**	Non-members: **$45.54**

SAVE! Buy all three volumes of *Uncovering Student Ideas in Physical Science!*

#: **PK274X3** Members: **$86.53** Non-members: **$108.16**

Never Stop Wondering

Emily Morgan | NSTA KIDS, GRADES K–4

Keep curiosity alive! That's the message of *Never Stop Wondering*, which inspires children to develop an enduring interest in the mysteries of the universe. Illustrated with whimsical drawings and written in lively verse by Emily Morgan (author of the *Next Time You See* series, pp. 56–57), the book is a vibrant ode to the power of asking questions and the endeavor of science. It prompts kids to be inquisitive and persistent like the great scientists of history and provides activities to get their questions flowing; it motivates them to appreciate scientific inquiry; and most important, it encourages them to never stop in their quest to explore the "whys" of the world.

Never stop wondering, never stop questioning.
Never stop trying to figure things out.

Always keep searching, always keep asking.
That's what science is all about.

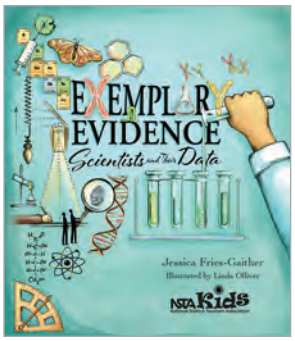
© 2019; ISBN: 978-1-68140-008-2; 32 pages; Lexile: 790L

#: **PB440X**	Members: **$10.36**	Non-members: **$12.95**
E-book #: **PKEB440X**	Members: **$8.42**	Non-members: **$9.71**
Book/E-book Set #: **PKE440X**	Members: **$13.47**	Non-members: **$16.84**

Library Edition

© 2019; ISBN: 978-1-68140-650-3; 32 pages; Lexile: 790L

#: **PB440XL**	Members: **$15.16**	Non-members: **$18.95**



Exemplary Evidence
Scientists and Their Data

Jessica Fries-Gaither | NSTA KIDS, GRADES 3–5

With this follow-up to the award-winning *Notable Notebooks* (see below), you can help kids discover what data—and scientists—can do! *Exemplary Evidence* highlights how a diverse range of scientists, including Marie Tharp and Russell Stands-Over-Bull, have used measurements, mapping, and even sketches to make all kinds of breakthroughs.

© 2019: ISBN: 978-1-68140-361-8; 32 pages; Lexile: 990L

#: **PB441X**	Members: **$11.96**	Non-members: **$14.95**
E-book #: **PKEB441X**	Members: **$8.97**	Non-members: **$11.21**
Book/E-book Set #: **PKE441X**	Members: **$14.35**	Non-members: **$17.94**

Library Edition

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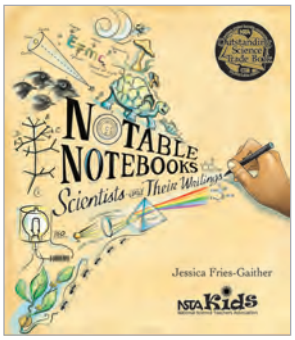


Notable Notebooks
Scientists and Their Writings

Jessica Fries-Gaither | NSTA KIDS, GRADES 3–5

This book brings to life the many ways in which trailblazers from Galileo to Jane Goodall have used a science notebook. You will also get four steps to starting your own notebook, plus mini-biographies of the diverse featured scientists. Written in captivating rhyme, the text is sprinkled with lively illustrations. ● **OUTSTANDING SCIENCE TRADE BOOK FOR STUDENTS K–12!**

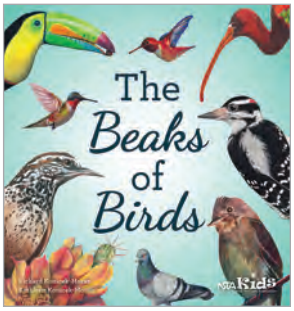
© 2016; ISBN: 978-1-68140-307-6; 32 pages; Lexile: 670L

#: **PB415X**	Members: **$11.96**	Non-members: **$14.95**
E-book #: **PKEB415X**	Members: **$8.97**	Non-members: **$11.21**
Book/E-book Set #: **PKE415X**	Members: **$14.35**	Non-members: **$17.94**

Library Edition

© 2016; ISBN: 978-1-68140-379-3; 32 pages; Lexile: 670L

#: **PB415XL**	Members: **$15.16**	Non-members: **$18.95**



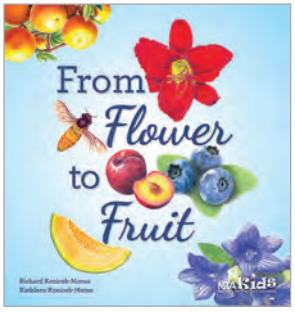
The Beaks of Birds

Richard Konicek-Moran and Kathleen Konicek-Moran | NSTA KIDS, GRADES 3–5

Why do some birds have beaks like straws, or pouches, or even daggers? Invite students to find out by reading this story of a child and two grown-up friends on a jaunt that sparks all kinds of questions. In addition to kindling kids' curiosity, the colorful book shows how the structure of birds' beaks plays a significant role in how birds function to find and capture their food. Bonus background material and eight age-appropriate activities round out the contents. The authors are husband-and-wife naturalists who also wrote and illustrated *From Flower to Fruit* (see below).

© 2019; ISBN: 978-1-68140-352-6; 36 pages; Lexile: 670L

#: **PB442X**	Members: **$10.36**	Non-members: **$12.95**
E-book #: **PKEB442X**	Members: **$7.77**	Non-members: **$9.71**
Book/E-book Set #: **PKE442X**	Members: **$12.43**	Non-members: **$15.54**



From Flower to Fruit

Richard Konicek-Moran and Kathleen Konicek-Moran | NSTA KIDS, GRADES K–4

Spark curiosity about the parts of a flower and the vital roles of bees and seeds in plant reproduction as you explore several mysteries: How does a seed change as it sprouts into a plant? Why do scientists call a tomato a fruit? Can some fruits really fly, float, and stick to your socks? This book will transform curious readers—children and adults—into budding botanists.

© 2016; ISBN: 978-1-941316-34-4; 36 pages; Lexile: 720L

#: **PB416X**	Members: **$10.36**	Non-members: **$12.95**
E-book #: **PKEB416X**	Members: **$7.77**	Non-members: **$9.71**
Book/E-book Set #: **PKE416X**	Members: **$12.43**	Non-members: **$15.54**

When the Sun Goes Dark

Andrew Fraknoi and Dennis Schatz | NSTA KIDS, GRADES 5–8

Two curious children and their grandparents re-create eclipses in their living room using a lamp, a tennis ball, two Hula Hoops, and Ping-Pong balls. Later, the family explores safe ways to view a solar eclipse and ponders phenomena from sunspots to phases of the Moon. This book gives children and adults hands-on techniques for learning the science behind eclipses of the Sun and Moon.

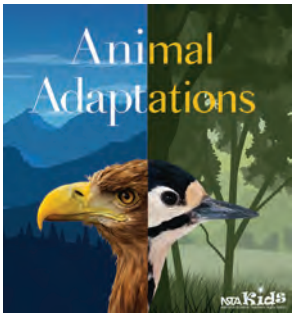
● **OUTSTANDING SCIENCE TRADE BOOK FOR STUDENTS K–12!**

© 2017; ISBN: 978-1-68140-011-2; 36 pages; Lexile: 890L

#: **PB417X**	Members: **$11.96**	Non-members: **$14.95**
E-book #: **PKEB417X**	Members: **$8.97**	Non-members: **$11.96**
Book/E-book Set #: **PKE417X**	Members: **$14.35**	Non-members: **$17.94**

Animal Adaptations

National Science Teaching Association | NSTA KIDS, GRADES K–5



From feet to color to teeth, animals have many special structures that help them survive. This book allows children to use their powers of observation to compare the physical characteristics of animals to figure out how the characteristics help the animals survive in their environments.

© 2018; ISBN: 978-1-68140-596-4; 36 pages; Lexile: 730L

#: **PB439X**	Members: **$11.96**	Non-members: **$14.95**
E-book #: **PKEB439X**	Members: **$8.97**	Non-members: **$11.21**
Book/E-book Set #: **PKE439X**	Members: **$14.35**	Non-members: **$17.94**

Mrs. Carter's Butterfly Garden

Steve Rich | NSTA KIDS, GRADES K–3

This is the story of how former First Lady Rosalynn Carter started a front yard project that grew into a butterfly-friendly trail through her hometown of Plains, Georgia. Learn why it's good for people when butterflies have welcoming spaces and how kids can create their own.

● **OUTSTANDING SCIENCE TRADE BOOK FOR STUDENTS K–12!**

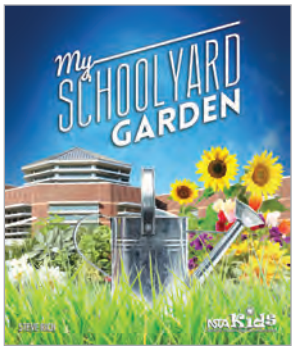
© 2015; ISBN: 978-1-941316-08-5; 32 pages; Lexile: 1120L

#: **PB352X1** E-book #: **PKEB352X1** Book/E-book Set #: **PKE352X1**

Book	E-book	Book/E-book
Members: **$10.36**	Members: **$8.42**	Members: **$13.47**
Non-members: **$12.95**	Non-members: **$9.71**	Non-members: **$16.84**

My School Yard Garden

Steve Rich | NSTA KIDS, GRADES K–3



This colorful book takes students on a ramble through a school yard garden—past the seeding beds, along the compost bin, and over to the birdhouse and birdbath. Along the way, children learn what insects, animals, and plants need to thrive and discover the fun of observing and recording it all.

© 2015; ISBN: 978-1-938946-21-9; 32 pages; Lexile: 1110L

#: **PB352X2** E-book #: **PKEB352X2** Book/E-book Set #: **PKE352X2**

Next Time

Emily Morgan | NSTA KIDS, GRADES K–5

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

Book	E-book	Book/E-book
Members: **$10.36**	Members: **$8.42**	Members: **$13.47**
Non-members: **$12.95**	Non-members: **$9.71**	Non-members: **$16.84**

SAVE! Buy all 9 *Next Time You See* books!

(paperback): **PK329X9** Members: **$88.58** Non-members: **$110.72**
(library): **PK329X9L** Members: **$129.62** Non-members: **$162.02**

Library editions are also available!

Members: **$15.16** Non-members: **$18.95**

Next Time You See a Bee
ISBN: **978-1-68140-652-7**; #: **PB329X9L**

Next Time You See a Cloud
ISBN: **978-1-941316-32-0**; #: **PB329X8L**

Next Time You See a Firefly
ISBN: **978-1-938946-16-5**; #: **PB329X3L**

Next Time You See a Maple Seed
ISBN: **978-1-941316-15-3**; #: **PB329X6L**

Next Time You See the Moon
ISBN: **978-1-938946-49-3**; #: **PB329X5L**

Next Time You See a Pill Bug
ISBN: **978-1-938946-17-2**; #: **PB329X4L**

Next Time You See a Seashell
ISBN: **978-1-938946-27-1**; #: **PB329X1L**

Next Time You See a Spiderweb
ISBN: **978-1-941316-31-3**; #: **PB329X7L**

Next Time You See a Sunset
ISBN: **978-1-938946-26-4**; #: **PB329X2L**

Next Time You See a Bee

This book will get young readers buzzing about bees! *Next Time You See a Bee* reveals the big impact these little insects have on the world. It shows how the physical features of bees make them pros at collecting and spreading pollen. It explains how bees pollinate flowers, allowing the plants to produce delicious foods such as apples, almonds, and peaches. It also introduces readers to the wide variety of North America's native bee species, discusses why bees are threatened, and shares what readers can do to help. After reading *Next Time You See a Bee,* curious kids can partner with adults to observe these remarkable creatures without fear—and take bee-friendly measures to protect the insects for the benefit of us all.

© 2019; ISBN: 978-1-68140-651-0; 32 pages; Lexile: 940L
#: **PB329X9** E-book #: **PKEB329X9** Book/E-book Set #: **PKE329X9**

Next Time You See a Cloud

● **OUTSTANDING SCIENCE TRADE BOOK FOR STUDENTS K–12!**

© 2016; ISBN: 978-1-938946-36-3; 32 pages; Lexile: 980L
#: **PB329X8** E-book #: **PKEB329X8** Book/E-book Set #: **PKE329X8**

You See

BEST SELLING SERIES

NSTA Kids

Next Time You See a Firefly

- OUTSTANDING SCIENCE TRADE BOOK FOR STUDENTS K–12!

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#: **PB329X3** E-book #: **PKEB329X3** Book/E-book Set #: **PKE329X3**

Next Time You See a Maple Seed

- OUTSTANDING SCIENCE TRADE BOOK FOR STUDENTS K–12!

© 2014; ISBN: 978-1-938946-35-6; 32 pages; Lexile: 1040L
#: **PB329X6** E-book #: **PKEB329X6** Book/E-book Set #: **PKE329X6**

Next Time You See the Moon

- ILA/CBC CHILDREN'S CHOICES WINNER!

© 2014; ISBN: 978-1-938946-33-2; 32 pages; Lexile: 940L
#: **PB329X5** E-book #: **PKEB329X5** Book/E-book Set #: **PKE329X5**

Spanish edition available

La próxima vez que veas la luna

© 2016; ISBN: 978-1-68140-286-4; 32 pages; e-ISBN: 978-1-68140-287-1
#: **PB329X5SP** E-book #: **PKEB329X5SP** Book/E-book Set #: **PKE329X5SP**

Next Time You See a Pill Bug

- OUTSTANDING SCIENCE TRADE BOOK FOR STUDENTS K–12!
- REVERE AWARD WINNER!

© 2013; ISBN: 978-1-936959-17-4; 32 pages; Lexile: 640L
#: **PB329X4** E-book #: **PKEB329X4** Book/E-book Set #: **PKE329X4**

Spanish edition available

La próxima vez que veas una cochinilla

© 2016; ISBN: 978-1-68140-289-5; 32 pages; e-ISBN: 978-1-68140-290-1
#: **PB329X4SP** E-book #: **PKEB329X4SP** Book/E-book Set #: **PKE329X4SP**

Next Time You See a Seashell

- REVERE AWARD WINNER!

© 2013; ISBN: 978-1-936959-15-0; 32 pages; Lexile: 810L
#: **PB329X1** E-book #: **PKEB329X1** Book/E-book Set #: **PKE329X1**

Next Time You See a Spiderweb

- OUTSTANDING SCIENCE TRADE BOOK FOR STUDENTS K–12!

© 2015; ISBN: 978-1-938946-34-9; 32 pages; Lexile: 1080L
#: **PB329X7** E-book #: **PKEB329X7** Book/E-book Set #: **PKE329X7**

Next Time You See a Sunset

- OUTSTANDING SCIENCE TRADE BOOK FOR STUDENTS K–12!

© 2013; ISBN: 978-1-936959-16-7; 32 pages; Lexile: 630L
#: **PB329X2** E-book #: **PKEB329X2** Book/E-book Set #: **PKE329X2**

Spanish edition available

La próxima vez que veas una puesta del sol

© 2016; ISBN: 978-1-68140-282-6; 32 pages; e-ISBN: 978-1-68140-284-0
#: **PB329X2SP** E-book #: **PKEB329X2SP** Book/E-book Set #: **PKE329X2SP**

I Wonder Why

Lawrence F. Lowery

The *I Wonder Why* series was written to ignite the curiosity of young children while encouraging them to become avid readers. Included in each volume is a Parent/Teacher Handbook with coordinating activities. The *I Wonder Why* series was written by award-winning science educator Lawrence Lowery.

Book	E-book	Book/E-book
Members: **$9.56**	Members: **$7.77**	Members: **$12.43**
Non-members: **$11.95**	Non-members: **$8.96**	Non-members: **$15.54**

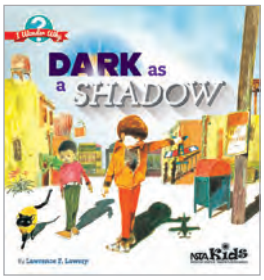
Animals Two by Two

NSTA KIDS, GRADES K–3

Reading this book is like taking a walk through the zoo with an eagle-eyed friend testing you about the differences between a frog and a toad or a mole and a vole!

© 2015; ISBN: 978-1-941316-28-3; 36 pages; Lexile: 570L

#: **PB330X20** E-book #: **PKEB330X20** Book/E-book Set #: **PKE330X20**



Dark as a Shadow

NSTA KIDS, GRADES K–6

Written in lively rhymes, this book makes it even more fun to learn the science behind why shadows change length throughout the day and disappear in the dark.

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Fragrant as a Flower

NSTA KIDS, GRADES K–3

This book invites kids to discover what their sense of smell can teach them about the world around them.

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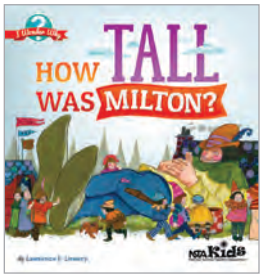

How Tall Was Milton?

NSTA KIDS, GRADES K–6

In this book, the townspeople's earnest yet humorous attempts to gauge just how big Milton is convey the importance of having standard units of measurement.

© 2013; ISBN: 978-1-936959-43-3; 36 pages; Lexile: 550L

#: **PB330X2** E-book #: **PKEB330X2** Book/E-book Set #: **PKE330X2**

Look and See

NSTA KIDS, GRADES K–3

Charming text and bright pictures help children learn about the richness of sight and start making comparisons and identifying patterns in what they see.

© 2016; ISBN: 978-1-68140-355-7; 36 pages; Lexile: 300L

#: **PB330X22** E-book #: **PKEB330X22** Book/E-book Set #: **PKE330X22**

Quiet as a Butterfly

NSTA KIDS, GRADES K–3

The book not only explains how hearing works but also aims to sharpen young readers' awareness of all they can listen to and all they can learn as they do.

© 2016; ISBN: 978-1-68140-354-0; 36 pages; Lexile: 780L
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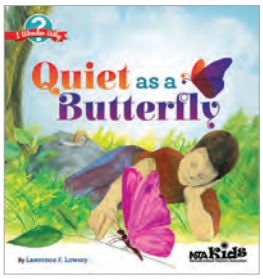

Sounds Are High, Sounds Are Low

NSTA KIDS, GRADES K–6

A whimsical introduction to pitch and volume, this book practically begs young scientists to read it aloud.

© 2014; ISBN: 978-1-941316-04-7; 36 pages; Lexile: 420L
#: **PB330X13** E-book #: **PKEB330X13** Book/E-book Set #: **PKE330X13**

Spenser and the Rocks

NSTA KIDS, GRADES K–6

This book is an engaging introduction to such scientific procedures as classification and research.

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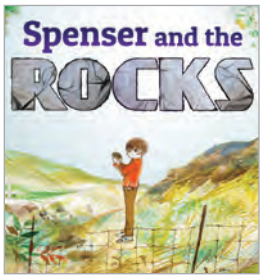
#: **PB330X6** E-book #: **PKEB330X6** Book/E-book Set #: **PKE330X6**



The Tree by Diane's House

NSTA KIDS, GRADES K–3

The book explores life cycles and the food chain as it shows young readers how an end can also be a new beginning in the natural world.

© 2015; ISBN: 978-1-941316-25-2; 36 pages; Lexile: 420L
#: **PB330X17** E-book #: **PKEB330X17** Book/E-book Set #: **PKE330X17**

Up, Up in a Balloon

NSTA KIDS, GRADES K–6

In addition to introducing scientific processes and principles of flight, this book may prompt budding inventors to try, try again.

- **OUTSTANDING SCIENCE TRADE BOOK FOR STUDENTS K–12!**

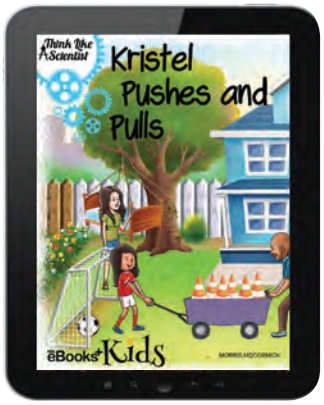
© 2013; ISBN: 978-1-938946-14-1; 36 pages; Lexile: 620L
#: **PB330X9** E-book #: **PKEB330X9** Book/E-book Set #: **PKE330X9**

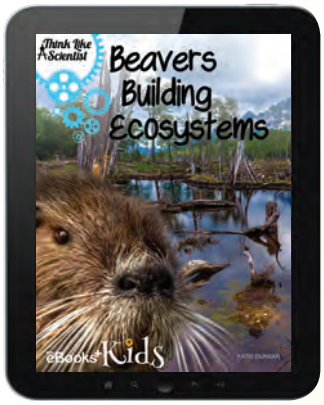
NSTA eBooks+Kids

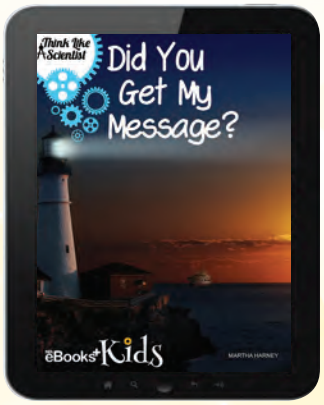
STEM
Grades K-5

STEM for kids! Phenomenon-based, three-dimensional learning content that's designed using the 5E model and incorporates the science and engineering practices (SEPs), crosscutting concepts (CCCs), and disciplinary core ideas (DCIs) of three-dimensional learning.

To see complete list of eBooks+*Kids*, go to *www.nsta.org/ebooks/kids*







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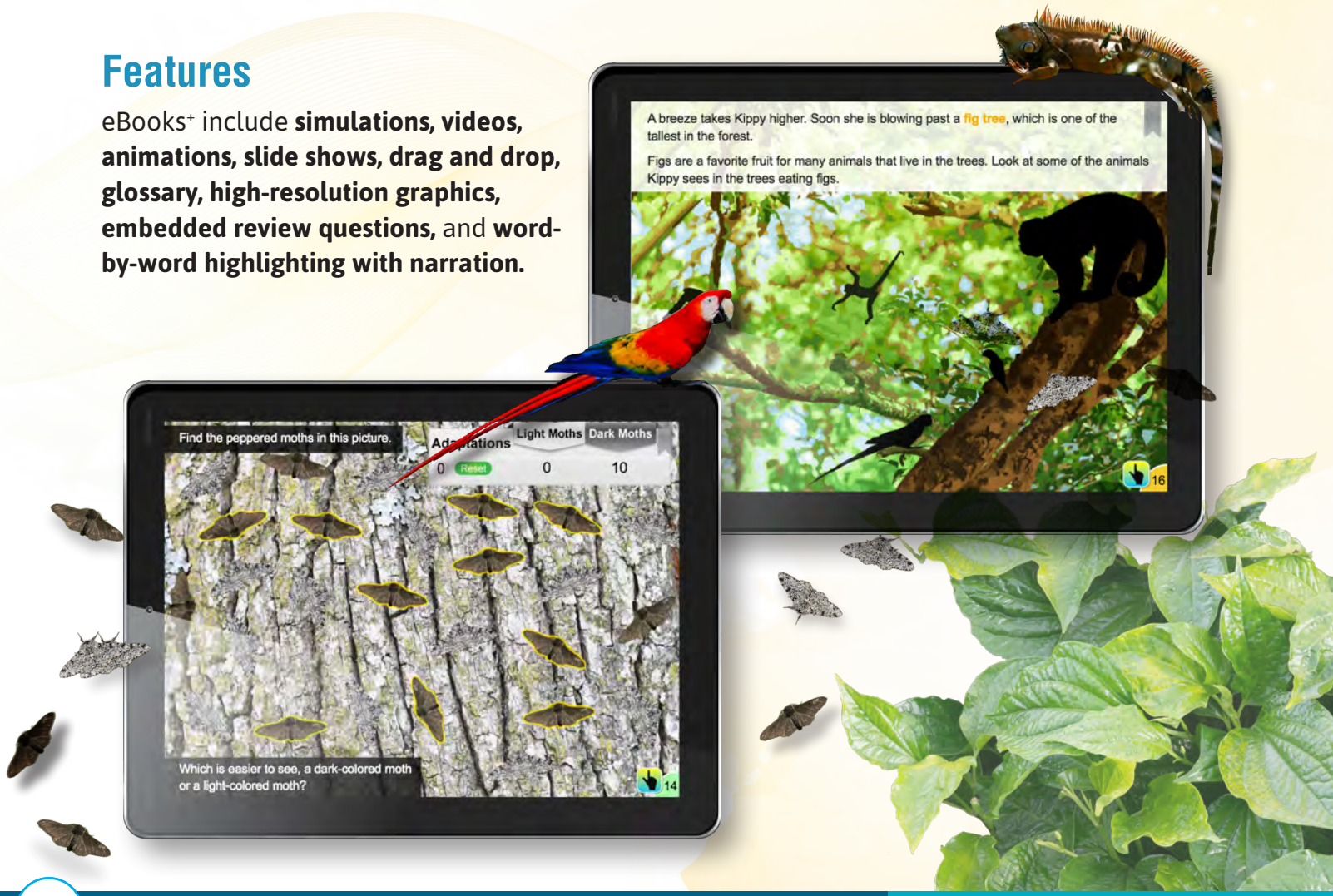


Teacher's Guide

Comprehensive teacher's guides are available. Each teacher's guide provides connections to the grade-level content (including science, ELA, and mathematics), explanations for how students are using the three dimensions (SEPs, CCCs, DCIs), and tips and practical information to enhance the e-book experience.

Use activities in the teacher's guides to implement three-dimensional learning in your classrooms.

English Language Arts: Speaking and Listening

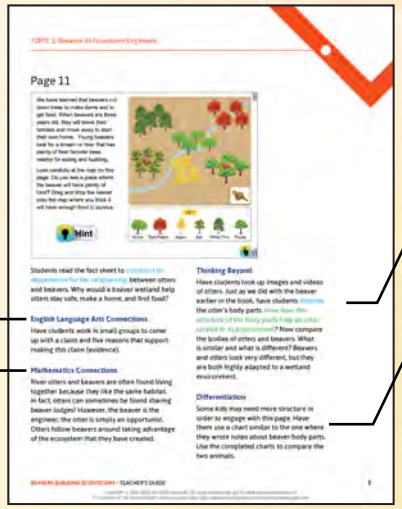
Explore Phenomena

Three-Dimensional Activities

A Note About Safety

English Language Arts Connections

Mathematics Connections



Hands-On Activities

Thinking Beyond

Misconceptions

Differentiated Learning

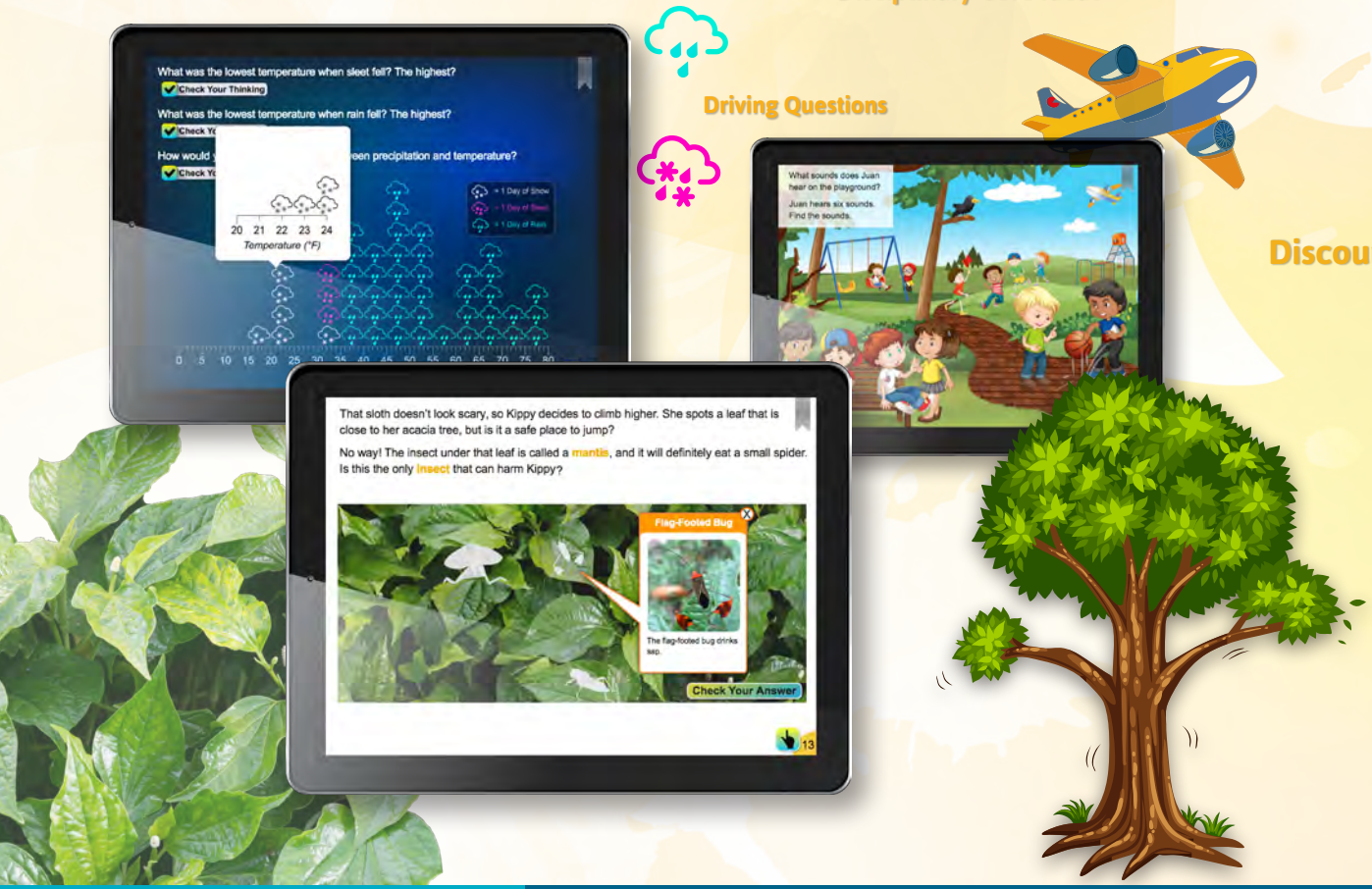
Engineering Connections

Performance Expectations

Disciplinary Core Ideas

Driving Questions

Discourse



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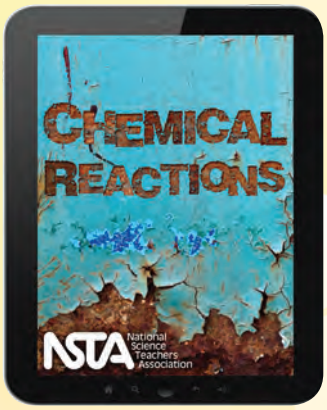
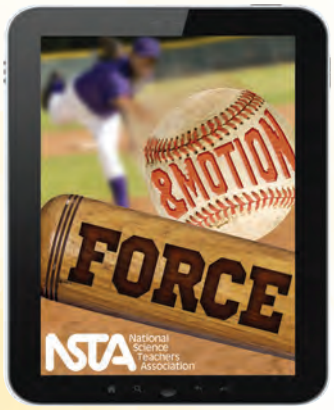
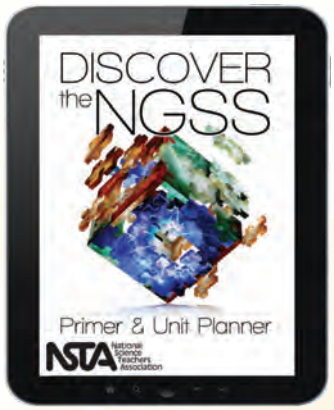
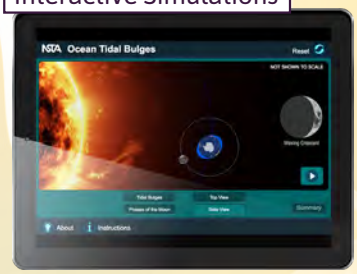




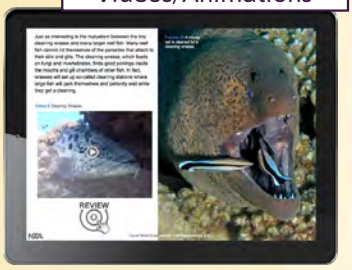


Features

Interactive Simulations

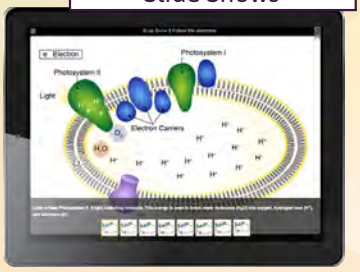


Videos/Animations



Glossary

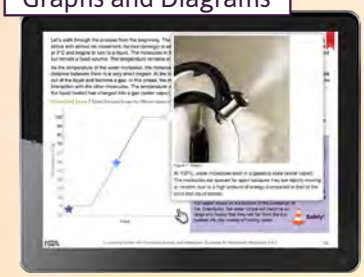
Slide Shows



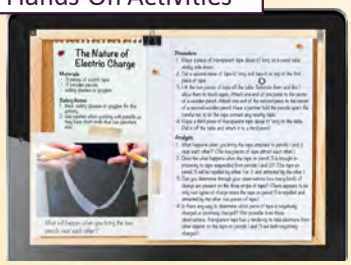
Interactive Images

Formative Assessment

Graphs and Diagrams



Hands-On Activities



Summative Assessment

NSTA eBooks+ Student Editions and Professional Learning

Student*	Professional Learning*
Explore science content	Brush up on content knowledge and pedagogy
Highlight and take notes directly in the e-book	Highlight and take notes directly in the e-book
Answer embedded review questions that can be viewed by teacher	Answer embedded review questions for self-assessment
Upload completed assignments to teacher (formats: PDF, Word, Excel, video, audio, image, URL)	View chapters on Learning Outcomes and Pedagogical Implications

* See URLs below for a complete list of the tools.

Information and Ordering of NSTA eBooks+ and NSTA eBooks+ Kids

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October 25 – 26, 2019 | Salt Lake City, UT

Three-Dimensional Teaching and Learning Powered by STEM Workshop
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November 16, 2019 | Cincinnati, OH

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www.nsta.org/conferences/ngss3.aspx
December 14, 2019 | Seattle, WA

Science and Engineering Practices: Professional Book Study for K–12 Teachers
https://learningcenter.nsta.org/bookstudy/2020-Winter.aspx
January 28 – February 18, 2020 | Virtual

Explore the Newest NSTA Professional Learning Programs Now Available!

NSTA will customize any program to match your educators' needs and goals and to best fit your professional learning schedule.

Three-Dimensional Teaching and Learning Powered by STEM

Empower educators to better integrate STEM and three-dimensional (3-D) standards for teaching and learning, and learn how STEM initiatives and 3-D instruction support each other. Participants explore the vision of a scientifically literate society described in *A Framework for K–12 Science Education*. They examine how this vision supports and is supported by STEM education, focusing on aspects of the designed world through the application of science and engineering practices.

Achieving Equity With Three-Dimensional Teaching and Learning

Explore how 3-D science instruction, driven by phenomena and problem solving, can create opportunities for ALL students to develop scientific literacy. Participants develop an understanding of 3-D teaching and learning and gain a powerful toolkit to support learning for all students in the classroom.

Assessing Three-Dimensional Learning

3-D teaching and learning poses new challenges—and new opportunities—in assessment. Participants learn how to examine student models for evidence of 3-D learning. They also learn criteria for evaluating the quality of assessment tasks.

Using Student-Work Protocols to Evaluate 3-D Learning

Participants learn a protocol to examine student work for evidence of 3-D learning, provide feedback, and inform next steps of instruction. The protocol can be used by individual teachers or within professional learning communities.

New Online Opportunity: Personalized Web Seminars

Add a series of private web seminars to extend your onsite learning, help deepen understanding, and offer educators a virtual space for collaboration through the Learning Center. Examples include the following:

- Supporting Student Discourse
- Phenomena Driving Student Learning
- Unpacking the Science and Engineering Practices

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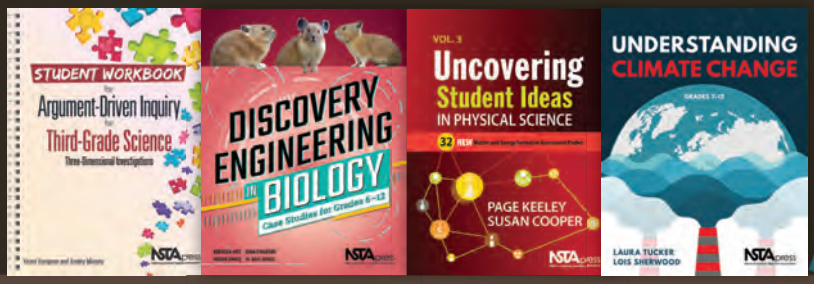

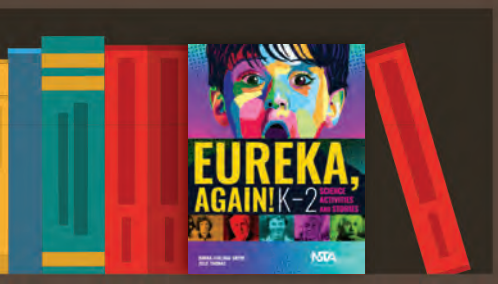

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