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2022

Professional Resources for Science Educators

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National Science Teaching Association

CONTENTS

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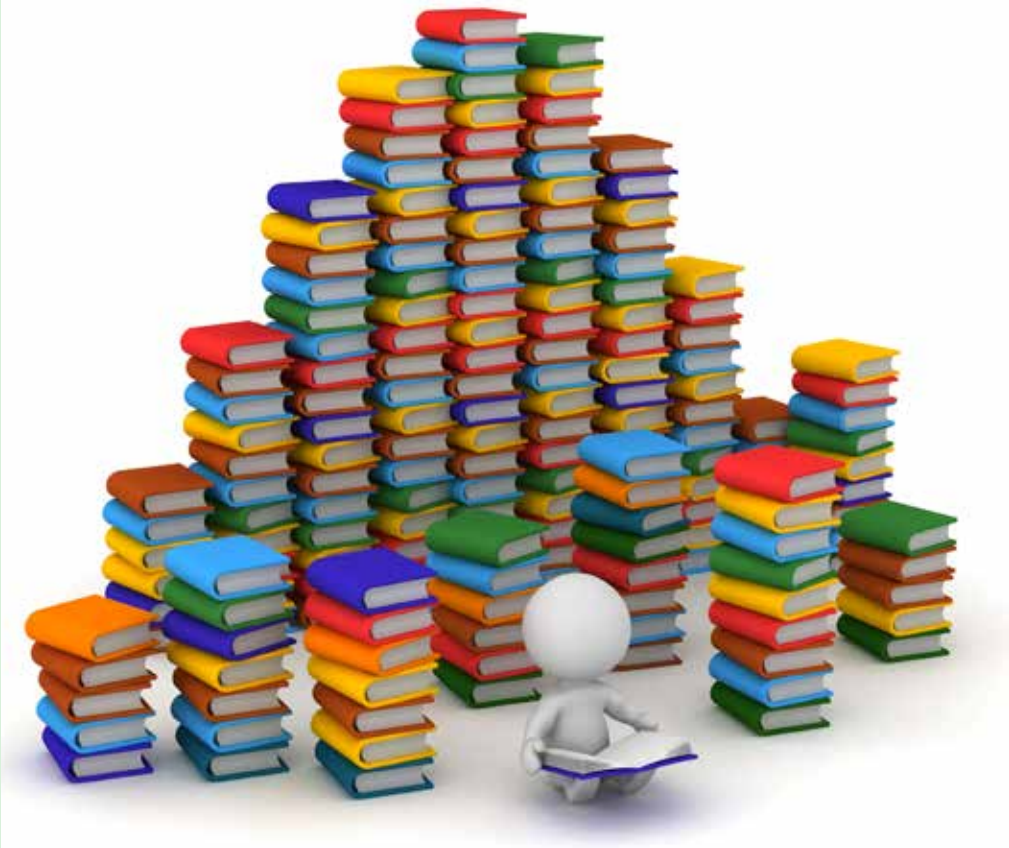
BULK PRICING



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1–9	0%
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www.nsta.org/bookstore-faqs

NSTA MEMBERSHIP

The Home of High-Quality, Vetted Science Teaching Resources

Daily Dos are sensemaking tasks teachers and parents can use to engage their students in authentic, relevant science learning.

Monthly Professional Learning Web Seminars

NSTA Web Seminars are live professional learning experiences that use online learning technologies to allow participants to interact with nationally acclaimed experts, NSTA Press authors, and scientists, engineers, and education specialists from NSTA partner organizations. NSTA members get free monthly web seminars as part of their membership.

Journals

NSTA members have access to four grade-range-specific journals as well as a journal that bridges in-school and out-of-school science teaching and learning.

Join 40,000 dedicated teachers, science supervisors, administrators, informal educators, scientists, and business and industry representatives committed to science education.

Sign up today and take advantage of our new, flexible membership options.

Popular Series

UNCOVERING

Page Keeley | NSTA PRESS, GRADES K–12

NOW AVAILABLE Digital versions are now available of the same probes published in the printed *Uncovering Student Ideas* series. Teachers can easily gather and analyze data on the extent to which their students understand science concepts as well as uncover gaps or misconceptions that may not be visible with ordinary questioning.

The digital versions, in **English** and **Spanish**, integrate with **Google Classroom** and can be used in face-to-face or virtual classrooms. **Fillable PDFs** are included for student-selected responses and their explanations that are then returned to the teacher for analysis. Extensive teacher notes accompany each digital probe so that it can be used effectively. Digital probes can be purchased separately and are an excellent add-on to the printed *Uncovering Student Ideas* books.

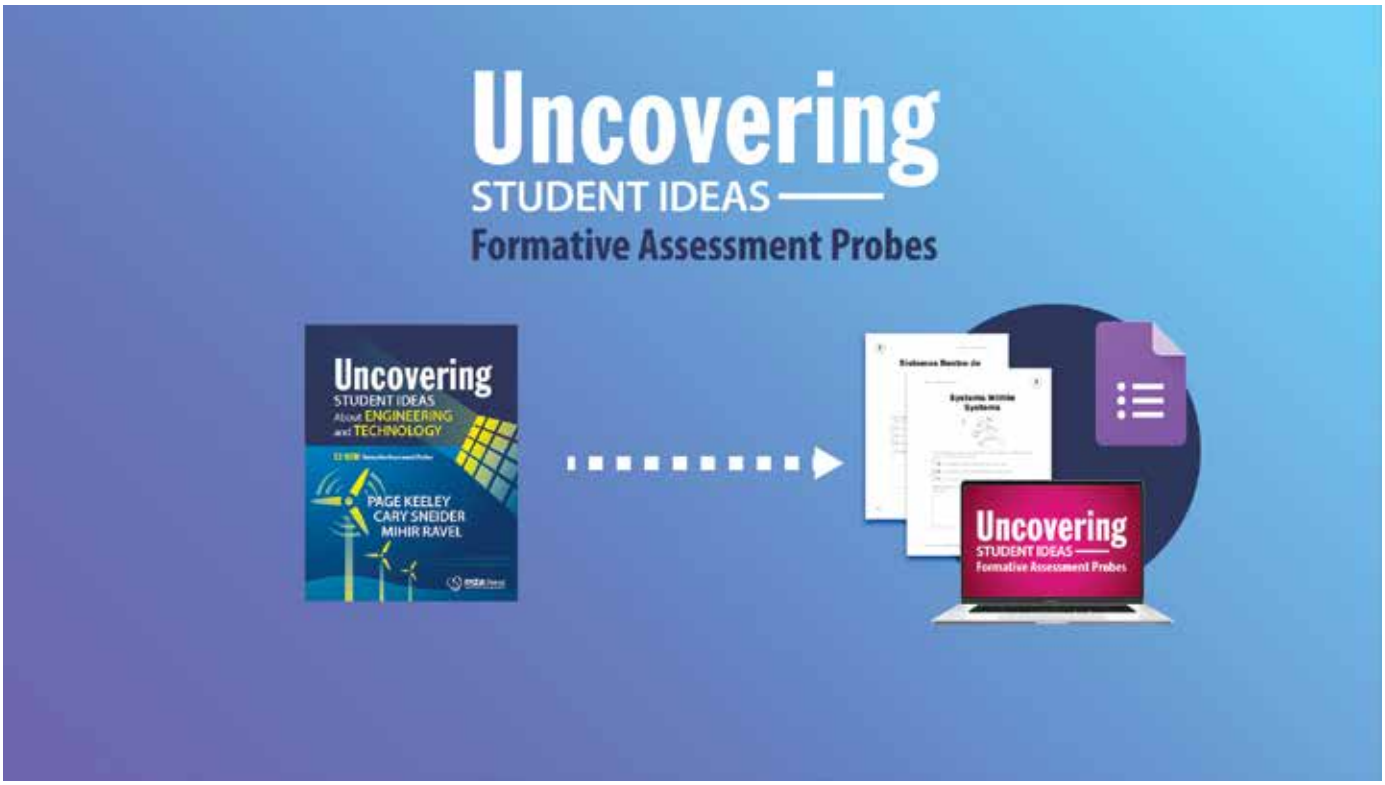
Set of digital probes: Members: $23.95/Non-members: $29.95

Uncovering Student Ideas, Volume 1, Second Edition

PB193X1E2_Probes

Uncovering Student Ideas About Engineering and Technology

PB455X_Probes

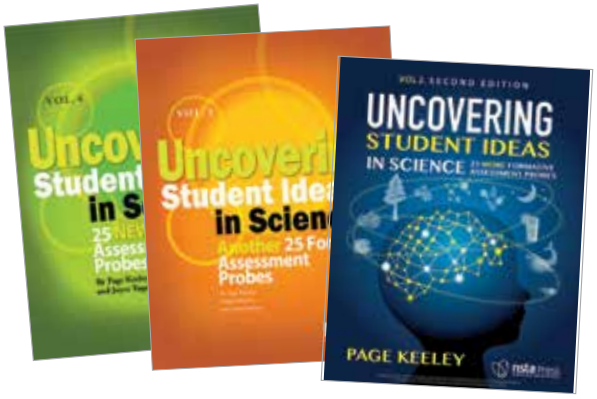


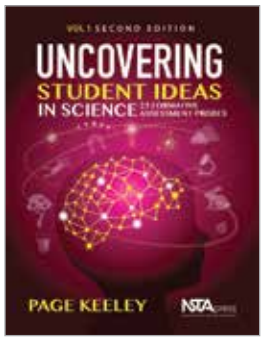
STUDENT IDEAS IN SCIENCE

Book
Members: **$27.96**
Non-members: **$34.95**

E-book
Members: **$23.91**
Non-members: **$ 29.88**

Book/E-book
Members: **$38.25**
Non-members: **$47.82**





Numerous teachers have taken advantage of the *Uncovering Student Ideas* series to reveal students' preconceptions. These books provide probes with easy-to-follow steps for uncovering and addressing students' ideas by promoting learning through conceptual change instruction. Probes cover topics such as physical, life, and Earth and space science; the nature of science; and unifying themes. These invaluable books include teacher materials that explain content, identify links to standards, and suggest grade-appropriate ways to present materials so students learn the concepts accurately. Teachers, professional development coordinators, and college science and preservice faculty will find these resources essential and exciting.

SAVE! Buy these four volumes together!
#: **PK193X4** Members: **$101.99** Non-members: **$127.48**

Volume 1, Second Edition
25 Formative Assessment Probes
© 2018; ISBN: 978-1-68140-563-6; 209 pages
#: **PB193X1E2** E-book #: **PKEB193X1E2** Book/E-book Set #: **PKE193X1E2**

Volume 2, Second Edition
25 More Formative Assessment Probes
© 2021; ISBN: 978-1-68140-832-3; 195 pages
#: **PB193X2E2** E-book #: **PKEB193X2E2** Book/E-book Set #: **PKE193X2E2**

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

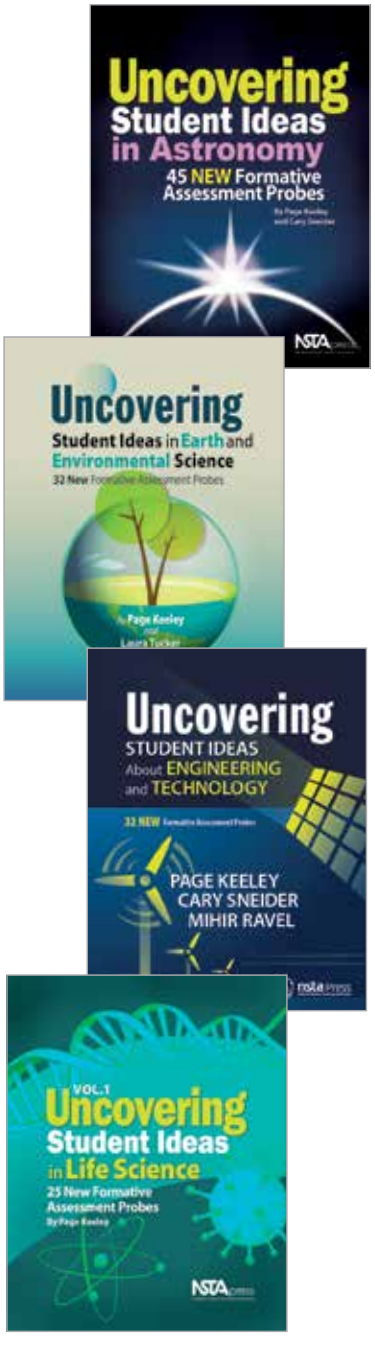
© 2008; ISBN: 978-1-933531-24-3; 198 pages
#: **PB193X3** E-book #: **PKEB193X3** Book/E-book Set #: **PKE193X3**

Volume 4
25 New Formative Assessment Probes
Joyce Tugel, Coauthor

© 2009; ISBN: 978-1-935155-01-0; 184 pages
#: **PB193X4** E-book #: **PKEB193X4** Book/E-book Set #: **PKE193X4**

Popular Series

UNCOVERING



Book	E-book	Book/E-book
Members: **$27.96**	Members: **$23.91**	Members: **$38.25**
Non-members: **$34.95**	Non-members: **$29.88**	Non-members: **$47.82**

Uncovering Student Ideas in Astronomy
45 New Formative Assessment Probes

Cary Sneider, Coauthor

© 2012; ISBN: 978-1-936137-38-1; 255 pages
#: **PB307X** E-book #: **PKEB307X** Book/E-book Set #: **PKE307X**

Uncovering Student Ideas in Earth and Environmental Science
32 New Formative Assessment Probes

Laura Tucker, Coauthor

© 2016; ISBN: 978-1-938946-47-9; 180 pages
#: **PB355X** E-book #: **PKEB355X** Book/E-book Set #: **PKE355X**

Uncovering Student Ideas About Engineering and Technology
32 New Formative Assessment Probes

Cary Sneider and Mihir Ravel, Coauthors | NSTA PRESS, GRADES 3–12

© 2020; ISBN: 978-1-68140-311-3; 200 pages
#: **PB455X** E-book #: **PKEB455X** Book/E-book Set #: **PKE455X**

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

© 2011; ISBN: 978-1-936137-17-6; 162 pages
#: **PB291X1** E-book #: **PKEB291X1** Book/E-book Set #: **PKE291X1**

SAVE! Buy all 12 *Uncovering* books plus *What Are They Thinking?!*
#: **PKUSIX13** Members: **$340.00** Non-members: **$425.00**

STUDENT IDEAS IN SCIENCE

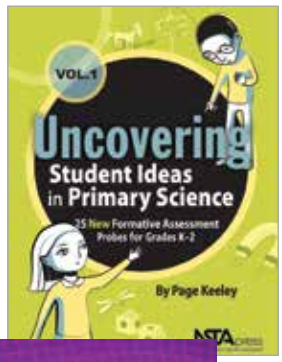
Uncovering Student Ideas in Primary Science, Volume 1

25 New Formative Assessment Probes for Grades K–2

This content is geared specifically for the primary grades, with an emphasis on simple vocabulary as well as drawing and speaking (instead of writing). The format of the student pages uses minimal text and includes visual representations of familiar objects, phenomena, and ideas.

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

#: **PB335X1** E-book #: **PKEB335X1** Book/E-book Set #: **PKE335X1**

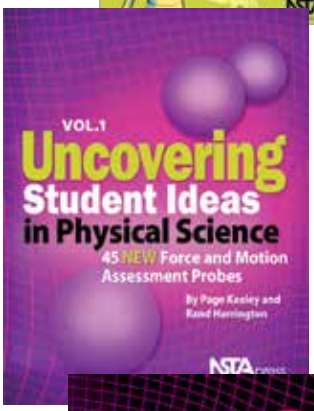


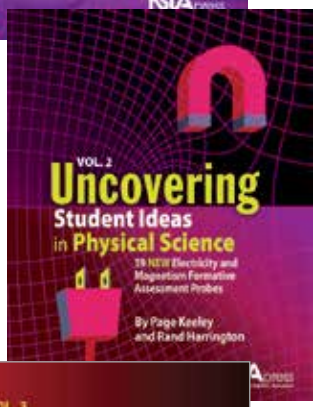
Uncovering Student Ideas in Physical Science, Volumes 1, 2, and 3

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** E-book #: **PKEB274X1** Book/E-book Set #: **PKE274X1**

Volume 2, 39 New Electricity and Magnetism Formative Assessment Probes

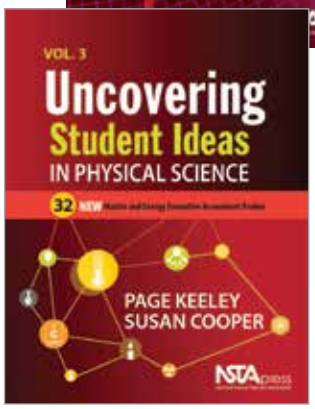
© 2014; ISBN: 978-1-936137-37-4; 190 pages

#: **PB274X2** E-book #: **PKEB274X2** Book/E-book Set #: **PKE274X2**

Volume 3, 32 New Matter and Energy Formative Assessment Probes

© 2014; ISBN: 978-1-68140-604-6; 224 pages; Grades 3–12

#: **PB274X3** E-book #: **PKEB274X3** Book/E-book Set #: **PKE274X3**



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

#: **PK274X3** Members: **$90.86** Non-members: **$113.57**

Popular Series

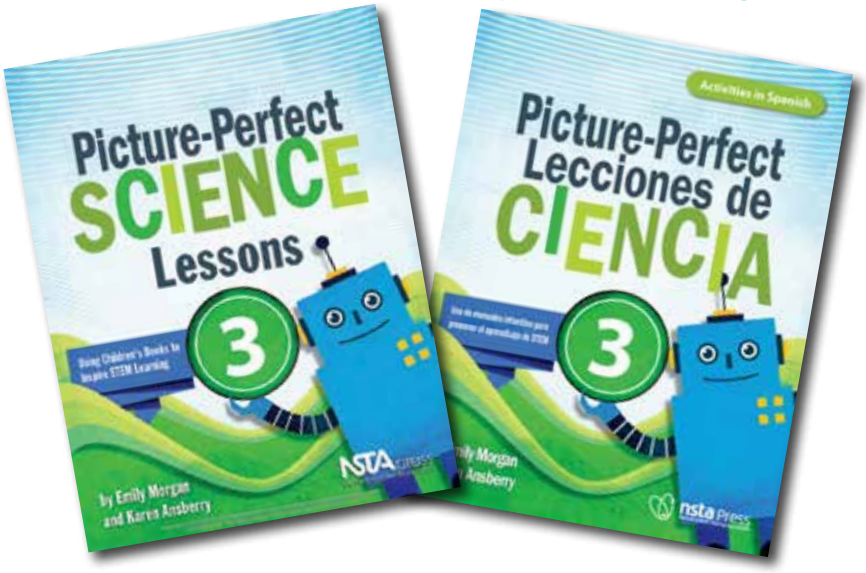
Teaching the Picture-Perfect Way

Never before has it been this easy to interest students in reading and science. The Picture-Perfect Science Program combines the appeal of children's picture books with standards-based science content. The **award-winning book series** contains lessons, complete with student pages and assessments, that use picture books to guide science instruction. Teachers will love the convenience of our accompanying **collections of children's books**. These collections include the children's trade books cited in all five of the *Picture-Perfect* books. We also offer ready-to-use **ClassPacks,** which include all of the materials needed to make performing the classroom-tested lessons even easier.

Let NSTA help you make the most of your school or district Picture-Perfect purchase with teacher **professional learning opportunities,** led by the authors or expert trainers, to support implementation of the program.

Lesson Book

Spanish Activity Book



Book Collections

ClassPacks

Professional Learning

lessons • trade books • hands-on kits • professional learning

Picture-Perfect STEM

Integrating Reading, Science, and Inquiry in One Complete Package to Engage in STEM Learning!

The lessons from the five *Picture-Perfect* lesson books are the heart of the *Picture-Perfect Science* program.
See page 12 for details on how to order these books.

Picture-Perfect by Grade Level

Now you can have the best activities from each *Picture-Perfect* book all in one place and organized by grade. These conveniently packaged grade-level versions of the *Picture-Perfect Science* series have been curated by the series authors. Each volume begins with chapters explaining the book's 5E learning cycle, how it connects to the standards, and more! And each volume includes a compilation of more than 10 engaging lessons that support literacy and STEM. The student activity pages for these new books are also available in **Spanish**!

See pages 8–13 for special purchasing packages and Book Collections by grade level.
Visit *www.nsta.org/book-series/picture-perfect-science* for pricing and ordering information!

Popular Series

Picture-Perfect SCIENCE

Lessons by Grade Level

Lesson Books

Read-Alouds

ClassPacks

Package Options

Lesson Book

+

Spanish Activity Book

Lesson Book and Read-Alouds

Grades K, 1, and 2
$319.12 each

Grades 3, 4, and 5
$399.97 each

Lesson Book, Read-Alouds, Spanish Activity Book, and ClassPack

Sufficient for a class of 28 students

Provides a ready supply of materials

Classroom Packages

Picture-Perfect Classroom Packages include grade level read-alouds with print version teacher edition, Spanish activity book, classroom supply kit, and ClassPacks of materials listed for the grade level (some lessons do not require ClassPack).

Kindergarten PPS — #: PPSCLRG-K — Member $1,384.74 — Non-member $1,737.17

- Sunshine on My Shoulders
- Feel the Heat
- Be a Friend to Trees
- Design a Habitat
- Move It!
- Roller Coasters
- Hear Your Heart
- The Handiest Things

1st Grade PPS — #: PPSCLRG-G1 — Member $1,574.54 — Non-member $1,968.24

- Mirror, Mirror
- Sounds All Around
- Let's Drum
- Over in the Ocean
- Unbeatable Beaks
- Amazing Caterpillars
- Robots Everywhere
- Bubbles

2nd Grade PPS — #: PPSCLRG-G2 — Member $1,679.50 — Non-member $2,099.37

- Freezing and Melting
- That Magnetic Dog
- Crayons
- Science Mysteries
- Build It!
- Design a Habitat
- Flight of the Pollinators
- If You Find a Rock
- Imaginative Inventions

3rd Grade PPS — #: PPSCLRG-G3 — Member $2,418.53 — Non-member $3,023.16

- Rice Is Life
- Spider Science
- Loco Beans
- Amazing Caterpillars
- Oil Spill
- Sheep in a Jeep
- Roller Coasters
- Float Your Boat
- Wind It Up
- The Secrets of Flight
- What Will Weather Be?
- Hurricane
- If I Built a Car

4th Grade PPS — #: PPSCLRG-G4 — Member $2,918.29 — Non-member $3,647.86

- Bugs!
- Ducks Don't Get Wet
- Bionic Animals
- Wiggling Worms
- Name That Shell
- From Edison to iPod
- Batteries Included
- Light It Up
- The Wind Blew
- Harnessing the Wind
- Grand Canyon
- If You Find a Rock
- Solving the Puzzle Under the Sea
- The Inventor's Secret

5th Grade PPS — #: PPSCLRG-G5 — Member $2,216.93 — Non-member $2,771.16

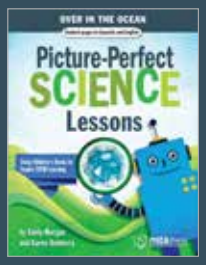
- Chemical Change Cafe
- Burn
- Sunsets and Shadows
- Space Exploration
- Day and Night
- The Changing Moon
- Oil Spill
- Rice Is Life
- The Secrets of Flight
- Mystery Pellets
- Earth Hounds
- What's Poppin'?
- Brainstorms

Picture-Perfect SCIENCE

Lessons by Grade Level

Individual *Picture-Perfect* Lesson Modules

***Picture-Perfect* Modules include the printed unit lesson plan, read-alouds, and ClassPack.**



Lesson booklet

Read-alouds

ClassPack

Member Pricing

* Only includes lesson plan and read-alouds (*no* ClassPack)

Kindergarten PPS					
Sunshine on My Shoulders	# PPSLSMDK-09	$83.96	Roller Coasters	# PPSLSMDK-08	$142.76
Feel the Heat	# PPSLSMDK-04	$184.76	Hear Your Heart	# PPSLSMDK-05	$83.96
Reduce, Reuse, Recycle*	# PPSLSMDK-07	$50.36	The Handiest Things	# PPSLSMDK-10	$159.96
We Planted a Tree*	# PPSLSMDK-11	$50.36	Do You Know Which One Will Grow?*	# PPSLSMDK-03	$50.36
Design a Habitat	# PPSLSMDK-02	$167.96	Be a Friend to a Tree	# PPSLSMDK-01	$83.96
Move It!	# PPSLSMDK-06	$251.96			
1st Grade PPS					
Mirror, Mirror	# PPSLSMDG1-17	$151.16	Amazing Caterpillars	# PPSLSMDG1-13	$167.96
Sounds All Around	# PPSLSMDG1-21	$218.36	Pillbots*	# PPSLSMDG1-19	$50.36
Let's Drum	# PPSLSMDG1-16	$251.96	Robots Everywhere	# PPSLSMDG1-20	$134.36
Get the Message*	# PPSLSMDG1-15	$50.36	Bubbles	# PPSLSMDG1-14	$83.96
Over in the Ocean	# PPSLSMDG1-18	$159.56	Stargazers*	# PPSLSMDG1-22	$50.36
Unbeatable Beaks	# PPSLSMDG1-23	$125.96	A Birthday Is No Ordinary Day*	# PPSLSMDG1-12	$50.36

Most lessons utilize the Classroom Supply Kit consisting of safety glasses, hand lenses, and more … $247.16

Individual *Picture-Perfect* Lesson Modules

(continued)

2nd Grade PPS					
Freezing and Melting	# PPSLSMDG2-28	$134.36	Design a Habitat	# PPSLSMDG2-26	$167.96
That Magnetic Dog	# PPSLSMDG2-36	$109.16	Seeds on the Move*	# PPSLSMDG2-34	$50.36
Crayons	# PPSLSMDG2-25	$184.76	Flight of the Pollinators	# PPSLSMDG2-27	$251.96
Our Blue Planet*	# PPSLSMDG2-32	$50.36	If You Find a Rock	# PPSLSMDG2-30	$151.16
How Big Is a Foot*	# PPSLSMDG2-29	$50.36	Imaginative Inventions	# PPSLSMDG2-31	$83.96
Science Mysteries	# PPSLSMDG2-33	$251.96	Sense of Wonder*	# PPSLSMDG2-35	$50.36
Build It!	# PPSLSMDG2-24	$167.96			
3rd Grade PPS					
Rice Is Life	# PPSLSMDG3-46	$117.56	Wind It Up	# PPSLSMDG3-53	$209.96
Spider Science	# PPSLSMDG3-49	$117.56	The Secrets of Flight	# PPSLSMDG3-50	$184.76
Loco Beans	# PPSLSMDG3-43	$100.76	Fossils Tell of Long Ago*	# PPSLSMDG3-40	$50.36
Amazing Caterpillars	# PPSLSMDG3-37	$151.16	What Will Weather Be?	# PPSLSMDG3-52	$209.96
Oil Spill	# PPSLSMDG3-44	$151.16	Hurricane	# PPSLSMDG3-41	$235.16
Turtle Hurdles*	# PPSLSMDG3-51	$50.36	If I Built a Car	# PPSLSMDG3-42	$251.96
Sheep in a Jeep	# PPSLSMDG3-48	$142.76	Better Together*	# PPSLSMDG3-38	$50.36
Roller Coasters	# PPSLSMDG3-47	$142.76	Problem Solvers*	# PPSLSMDG3-45	$50.36
Float Your Boat	# PPSLSMDG3-39	$193.16			
4th Grade PPS					
Bugs!	# PPSLSMDG4-56	$167.96	Light It Up	# PPSLSMDG4-63	$251.96
Ducks Don't Get Wet	# PPSLSMDG4-58	$151.16	The Wind Blew	# PPSLSMDG4-68	$377.96
Bionic Animals	# PPSLSMDG4-55	$243.56	Harnessing the Wind	# PPSLSMDG4-61	$209.96
Wiggling Worms	# PPSLSMDG4-69	$209.96	Grand Canyon	# PPSLSMDG4-60	$193.16
Name That Shell	# PPSLSMDG4-64	$134.36	If You Find a Rock	# PPSLSMDG4-62	$167.96
Sounds of Science*	# PPSLSMDG4-66	$50.36	Solving the Puzzle Under the Sea	# PPSLSMDG4-65	$251.96
From Edison to iPod	# PPSLSMDG4-59	$151.16	The Inventor's Secret	# PPSLSMDG4-67	$201.56
Batteries Included	# PPSLSMDG4-54	$209.96	Down the Drain*	# PPSLSMDG4-57	$50.36
5th Grade PPS					
Chemical Change Cafe	# PPSLSMDG5-72	$142.76	The Secrets of Flight	# PPSLSMDG5-86	$184.76
Burn	# PPSLSMDG5-71	$151.16	From Seed to Tree*	# PPSLSMDG5-76	$50.36
Sunsets and Shadows	# PPSLSMDG5-84	$134.36	Day and Night	# PPSLSMDG5-74	$310.76
Space Exploration	# PPSLSMDG5-82	$167.96	Mystery Pellets	# PPSLSMDG5-79	$167.96
Close Encounters of a Symbiotic Kind*	# PPSLSMDG5-73	$50.36	Earth Hounds	# PPSLSMDG5-75	$134.36
Mesmerized*	# PPSLSMDG5-78	$50.36	What's Poppin'?	# PPSLSMDG5-87	$117.56
The Changing Moon	# PPSLSMDG5-85	$117.56	Brainstorms	# PPSLSMDG5-70	$134.36
Oil Spill	# PPSLSMDG5-80	$151.16	Star Stuff*	# PPSLSMDG5-83	$50.36
Rice Is Life	# PPSLSMDG5-81	$117.56	From Trash to Treasure*	# PPSLSMDG5-77	$50.36

For a complete list of materials in each ClassPack, visit *www.nsta.org/class-packs/all*.

Book
Members: **$37.96**
Non-members: $**47.45**

E-book
Members: **$26.43**
Non-members: **$33.03**

Book/E-book
Members: **$42.28**
Non-members: **$52.86**

Picture-Perfect Science Lessons
Expanded 2nd Edition

Karen Ansberry and Emily Morgan
NSTA PRESS, GRADES 3–6

© 2010; ISBN: 978-1-935155-16-4; 403 pages
#: **PB186E2** E-book #: **PKEB186E2** Book/E-book Set #: **PKE186E2**

More Picture-Perfect Science Lessons

Karen Ansberry and Emily Morgan
NSTA PRESS, GRADES K–4

© 2007; ISBN: 978-1-933531-12-0; 238 pages
#: **PB186X2** E-book #: **PKEB186X2** Book/E-book Set #: **PKE186X2**

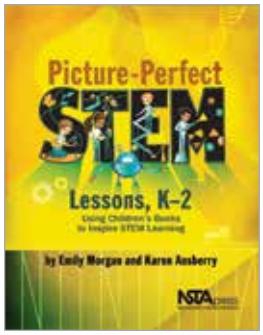
Even More Picture-Perfect Science Lessons

Emily Morgan and Karen Ansberry
NSTA PRESS, GRADES K–5

© 2013; ISBN: 978-1-935155-17-1; 302 pages
#: **PB186X3** E-book #: **PKEB186X3** Book/E-book Set #: **PKE186X3**

Use Reading to Engage in STEM Learning!

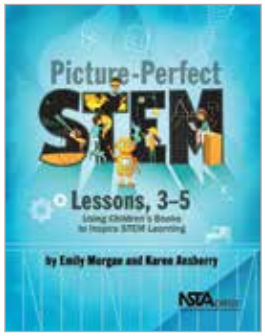
These volumes of the *Picture-Perfect* series combine the philosophy and format you love with an emphasis on STEM. With the K–2 volume, kids will get to read books such as *Iggy Peck, Architect* and *Next Time You See a Pill Bug* as they take on tasks such as building their own drums and designing a device that mimics a pill bug's structure and function. *The grade 3–5 volume* references a remarkable variety of books—such as *The Inventor's Secret* and *Trash to Treasure*—that will pique students' interest in STEM. As students dive into the practices of science, they will work on inventing toy cars and reducing plastic pollution.



Picture-Perfect STEM Lessons, K–2

Emily Morgan and Karen Ansberry
NSTA PRESS, GRADES K–2

© 2017; ISBN: 978-1-68140-328-1; 332 pages
#: **PB422X1**
E-book #: **PKEB422X1**
Book/E-book Set #: **PKE422X1**



Picture-Perfect STEM Lessons, 3–5

Emily Morgan and Karen Ansberry
NSTA PRESS, GRADES 3–5

© 2017; ISBN: 978-1-68140-331-1; 389 pages
#: **PB422X2**
E-book #: **PKEB422X2**
Book/E-book Set #: **PKE422X2**

SAVE! Buy all five *Picture-Perfect Science* volumes together!
#: **PKPPSX5**
Members: **$176.96**
Non-members: **$221.19**

Picture-Perfect Science Book Collections

Collections of children's trade books, some previously out of print, that support the *Picture-Perfect Science Lessons* series are now available, with each set packaged in a zippered canvas tote. The Collections include loved volumes—such as *Diary of a Worm* and *Dr. Xargle's Book of Earth Hounds*—that will be welcome additions to your school's science and reading resources. Each Collection includes more than two dozen books. **For a full list of the books available in each Collection, please visit** *www.nsta.org/book-series/picture-perfect-science*.

Original *Picture-Perfect* Book Collections

Collection	Trade book Collection + Lesson book (Best Value)	Trade book Collection *only*
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Even More Picture-Perfect Science Collection	#: **PAK186X3** Members: **$377.96** Non-members: **$472.45**	#: **OK186X3** Members: **$343.96** Non-members: **$429.95**
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Picture-Perfect Science Lessons by Grade	Book + Trade book Collection SET (Best Value)	Trade book Collection *only*
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Book	E-book	Book/E-book
Members: **$15.96**	Members: **$12.76**	Members: **$19.16**
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Even More Picture-Perfect Lecciones de Ciencia
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Picture-Perfect STEM Lecciones, K–2
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Picture-Perfect STEM Lecciones, 3–5
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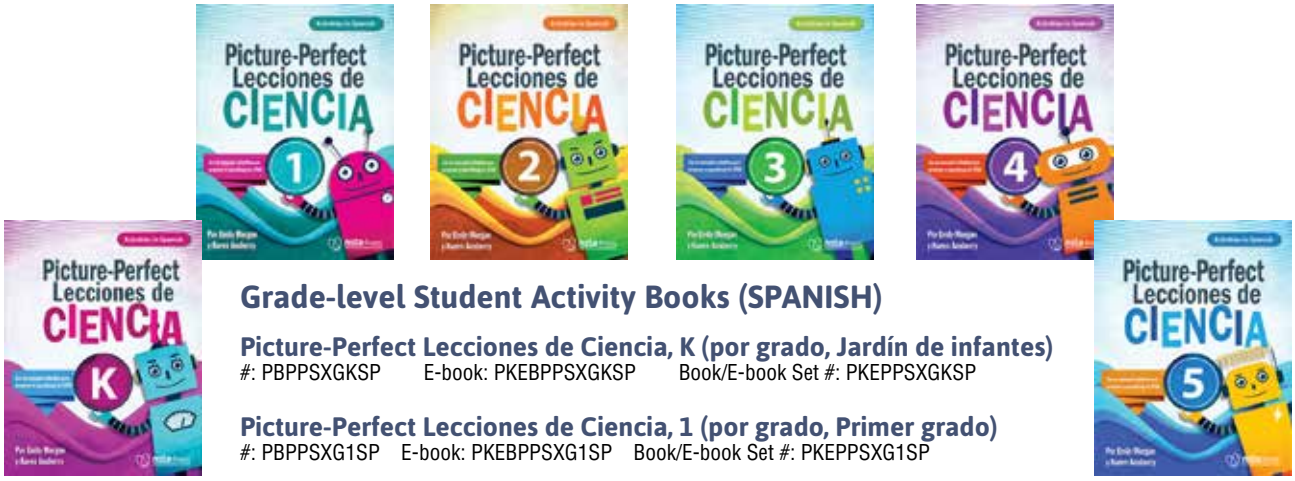

Grade-level Student Activity Books (SPANISH)

Picture-Perfect Lecciones de Ciencia, K (por grado, Jardín de infantes)
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Picture-Perfect Lecciones de Ciencia, 1 (por grado, Primer grado)
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Picture-Perfect Lecciones de Ciencia, 2 (por grado, Segundo grado)
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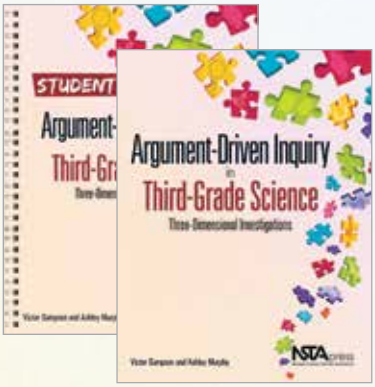
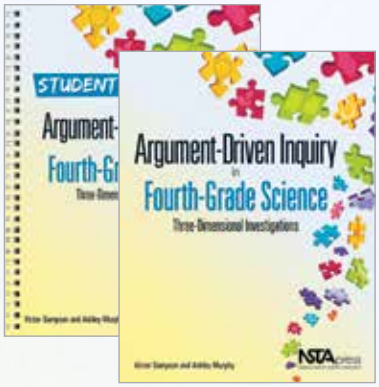
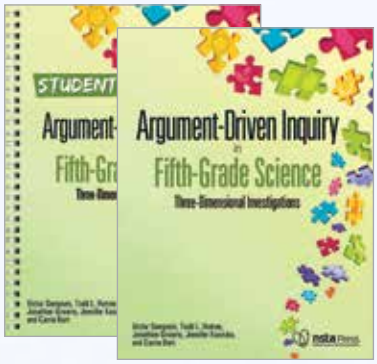
Argument-Driven Inquiry

Three-Dimensional Investigations for Elementary Students







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Now you can make the instructional shift to argument-driven inquiry (ADI) in your elementary classroom. Like the best-selling ADI books for middle and high school, these volumes are written by veteran teachers and prompt students to use argument to construct, support, and evaluate scientific claims. You'll see that these books emphasize "figuring things out" instead of just "learning about things."

Each lesson comes with teacher notes, investigation handouts, and checkout questions. The investigations support the *NGSS* and 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.

Argument-Driven Inquiry in Third-Grade Science

Victor Sampson and Ashley Murphy | NSTA PRESS, GRADE 3

Includes 14 field-tested lessons covering motion and stability, molecules and organisms, heredity, biological evolution, and Earth's systems.

© 2019; ISBN: 978-1-68140-517-9; 584 pages
#: **PB349X7** E-book #: **PKEB349X7** Book/E-book Set #: **PKE349X7**

Student Workbook (Third-Grade Science)

© 2019; ISBN: 978-1-68140-567-4; 247 pages
#: **PB349X7S** E-book #: **PKEB349X7S** Book/E-book Set #: **PKE349X7S**

Argument-Driven Inquiry in Fourth-Grade Science

Victor Sampson and Ashley Murphy | NSTA PRESS, GRADE 4

Includes 15 field-tested lessons covering energy, waves and their application in technologies for information transfer, molecules and organisms, and Earth's place in the universe and systems.

© 2019; ISBN: 978-1-68140-520-9; 677 pages
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Argument-Driven Inquiry in Fifth-Grade Science

Victor Sampson, Todd L. Hutner, Jonathon Grooms, Jennifer Kaszuba, and Carrie Burt | NSTA PRESS, GRADE 5

Includes 16 field-tested lessons covering matter and its interactions; motion and stability; ecosystems and their interactions, energy, and dynamics; Earth's place in the universe; and Earth's systems.

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Popular Series

Argument-

The *Argument-Driven Inquiry* series helps teachers make labs much more active and engaging for their students. 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. Each book has a companion Student Lab Manual that includes everything students need to complete the investigations.

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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

© 2015; ISBN: 978-1-938946-24-0; 386 pages
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Student Lab Manual for Argument-Driven Inquiry in Life Science

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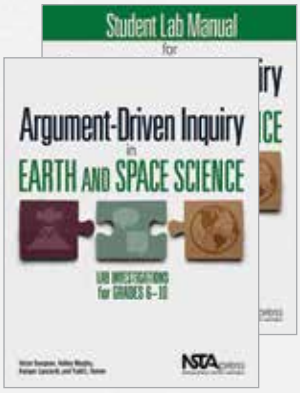
Argument-Driven Inquiry in Earth and Space Science

Lab Investigations for Grades 6–10



Victor Sampson, Ashley Murphy, Kemper Lipscomb, and Todd L. Hutner

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

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

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Driven Inquiry

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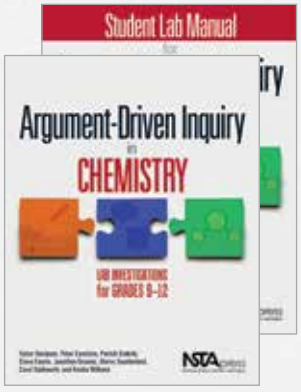

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Argument-Driven Inquiry in Physics, Volume 1

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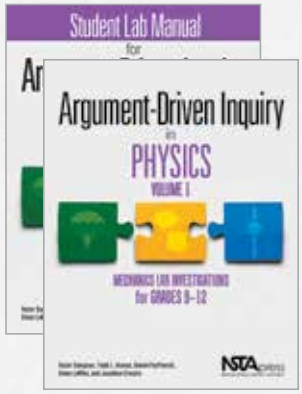

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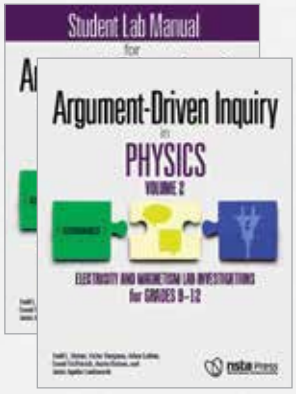

Todd L. Hutner, Victor Sampson, Adam LaMee, Daniel FitzPatrick, Austin Batson, and Jesus Aguilar-Landaverde

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Patrick Brown | NSTA PRESS, GRADES 3–12

Instructional sequence definitely does matter when it comes to helping children learn science. That's why these books focus 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. All three volumes give 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 at all grade levels.

Instructional Sequence Matters is grounded in two research-based approaches: POE (Predict, Observe, and Explain) and 5E (Engage, Explore, Explain, Elaborate, and Evaluate). Each of these books is a one-stop teaching resource for developing lessons that support both the *NGSS* and contemporary research on how students learn science best.

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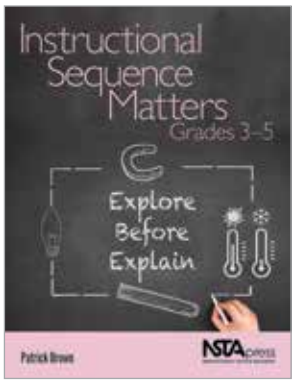

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Topics include heat and temperature, magnetism, electric circuits, chemical changes, ecosystems, Earth processes, and more!

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

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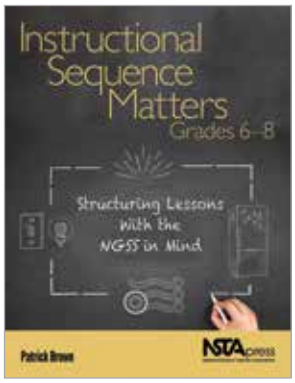

Instructional Sequence Matters, Grades 6–8
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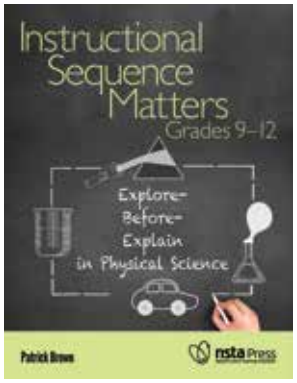

Instructional Sequence Matters, Grades 9–12
Explore-Before-Explain in Physical Science

Engage students as they tackle engineering design problems, use algebraic and mathematical reasoning, read technical texts, develop their own inquiries, and write argumentative essays.

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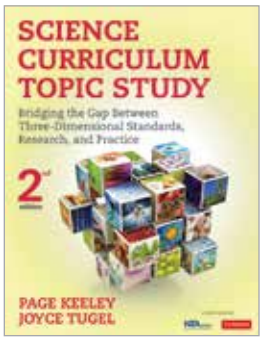

Science Curriculum Topic Study

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
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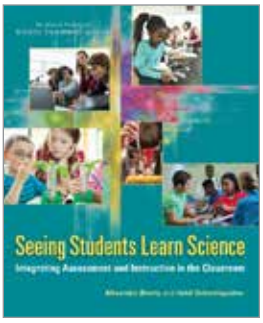

Seeing Students Learn Science

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
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- *Helping Students Make Sense of the World* (p. 21)
- *NSTA Quick-Reference Guide to the* NGSS, *K–12* (p. 20)
- *Science Curriculum Topic Study* (above)
- *The NSTA Atlas* (p. 20)
- *Uncovering Student Ideas in Science, Volume 1, 2nd Ed.* (p. 3)

#: **PKSCTSX6**
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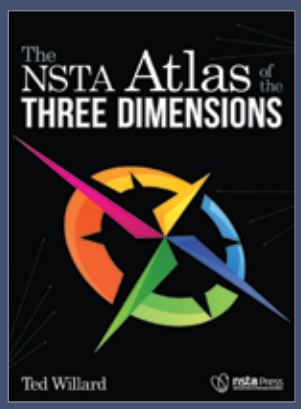

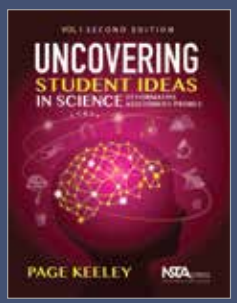

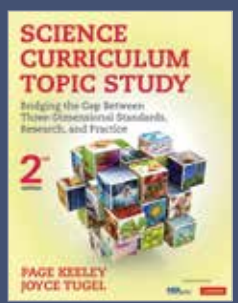

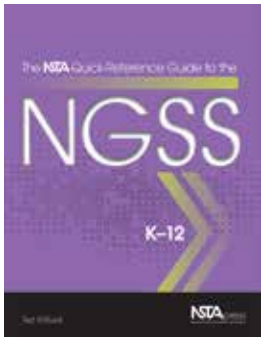

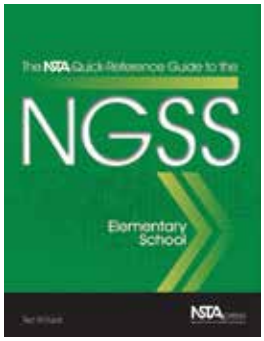

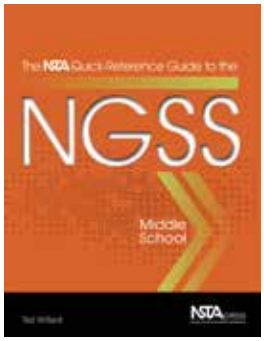

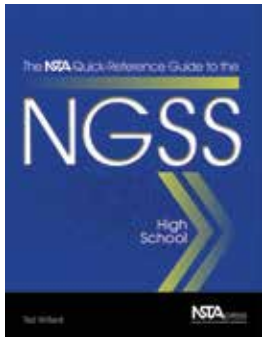

The NSTA Quick-Reference Guides to the *NGSS*

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: $16.76	Non-members: $20.95
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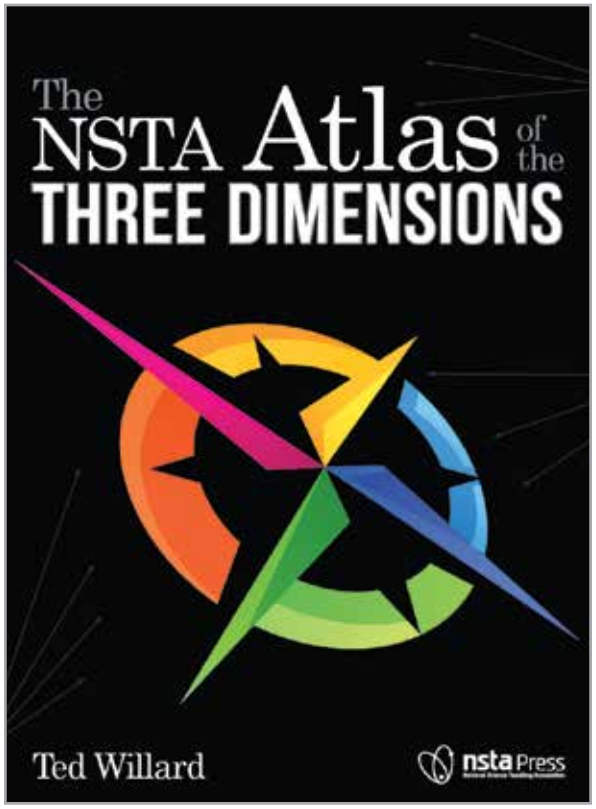

The NSTA Atlas of the Three Dimensions

Ted Willard | NSTA PRESS, GRADES K–12

Think of this book as your detailed guide to a deeper understanding of what your students are expected to learn and what you're expected to teach them. *The NSTA Atlas of the Three Dimensions* provides 62 maps showing what students should know and be able to do regarding the three dimensions of science described by *A Framework for K–12 Science Education*, the *Next Generation Science Standards*, and other state standards. The linked maps illustrate how the dimensions' elements can build on each other and connect to one another over the course of a K–12 education. Regardless of the grade levels you specialize in, this book can bring new coherence whenever you're developing a curriculum, planning instruction, or performing assessments.

© 2020; ISBN: 978-1-938946-08-0; 194 pages

#: **PB414X**	Members: **$61.70**	Non-members: **$77.12**
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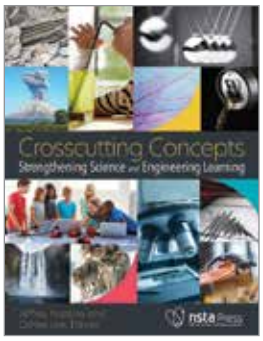
Crosscutting Concepts
Strengthening Science and Engineering Learning



Jeffrey Nordine and Okhee Lee, Editors | NSTA PRESS, GRADES K–12

If you've been trying to figure out how crosscutting concepts (CCCs) fit into three-dimensional learning, this in-depth resource will show you their usefulness across the sciences. The book is designed to help teachers at all grade levels (1) promote students' sensemaking and problem-solving abilities by integrating CCCs with science and engineering practices and disciplinary core ideas; (2) support connections across multiple disciplines and diverse contexts; and (3) use CCCs as a set of lenses through which students can learn about the world around them.

© 2021; ISBN: 978-1-68140-728-9; 398 pages

#: **PB457X**	Members: **$35.24**	Non-members: **$44.05**
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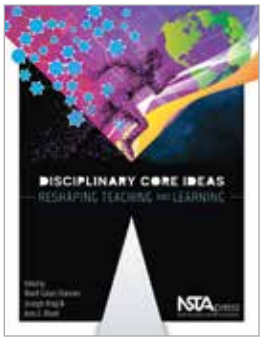
Disciplinary Core Ideas
Reshaping Teaching and Learning



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.

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

#: **PB402X**	Members: **$35.24**	Non-members: **$44.05**
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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?

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

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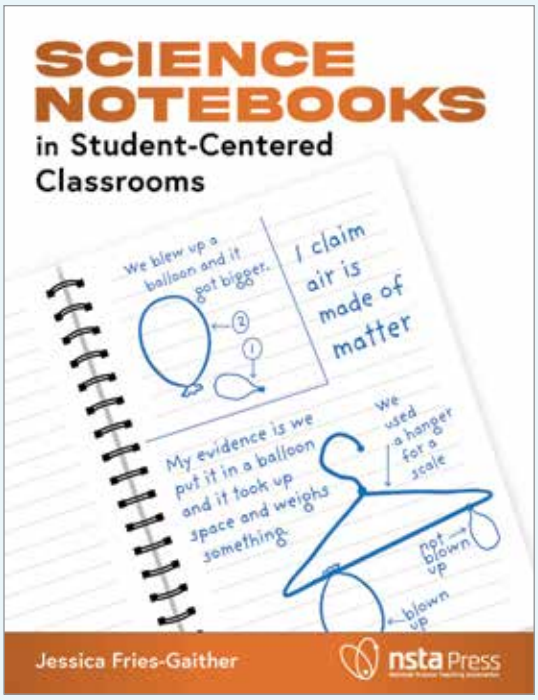

COMING SOON!

Science Notebooks in Student-Centered Classrooms

Jessica Fries-Gaither | GRADES 3–5

Why is science notebooking so valuable for your elementary school students? Because a notebook is thinking made visible—a tangible record of how they ask questions, analyze and interpret data, and engage in argument from evidence. That's the idea behind *Science Notebooks in Student-Centered Classrooms*. This comprehensive guide shows how budding scientists and teachers both benefit when K–5 students use notebooks to record their emerging understanding in a three-dimensional science classroom.

© 2022; ISBN: 978-1-68140-707-4; 138 pages

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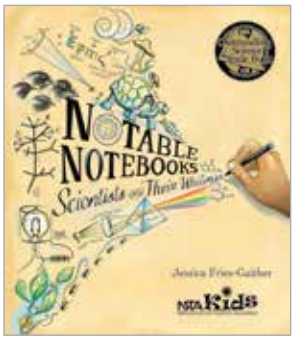

Notable Notebooks

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

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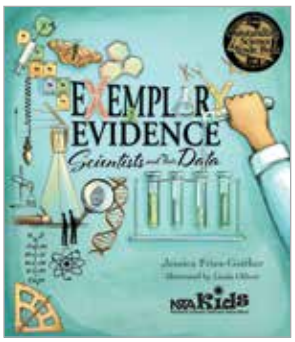

Exemplary Evidence

Scientists and Their Data

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

With this follow-up to the award-winning *Notable Notebooks* (see above), 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. ● **OUTSTANDING SCIENCE TRADE BOOK FOR STUDENTS K–12!**

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

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Next Time You See

nsta kids

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.)

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Next Time You See the Moon (Out-of-print)
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Next Time You See a Spiderweb
ISBN: **978-1-941316-31-3**; #: **PB329X7L**

Next Time You See a Sunset (Out-of-print)
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**

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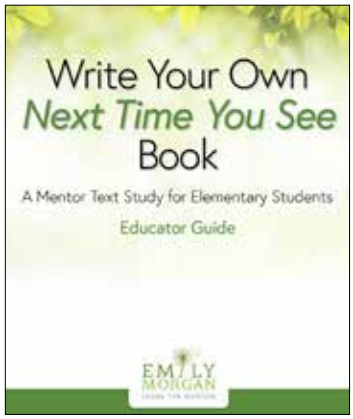
Download the free Mentor Text Study that guides your students through the process of writing their own *Next Time You See* book at https://emilymorganbooks.com/resources.



Next Time You See

The *Next Time You See* series of books can get you and your students outside to observe the wonders in nature right outside your door.

Next Time You See a Cloud

● OUTSTANDING SCIENCE TRADE BOOK FOR STUDENTS K–12!

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Next Time You See a Spiderweb

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Next Time You See books available in both English and Spanish.

Next Time You See the Moon

- ILA/CBC CHILDREN'S CHOICES WINNER!

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La próxima vez que veas la luna

© 2016; ISBN: 978-1-68140-286-4; 32 pages; e-ISBN: 978-1-68140-287-1
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Next Time You See a Pill Bug

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#: **PB329X4** E-book #: **PKEB329X4** Book/E-book Set #: **PKE329X4**

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Next Time You See a Sunset

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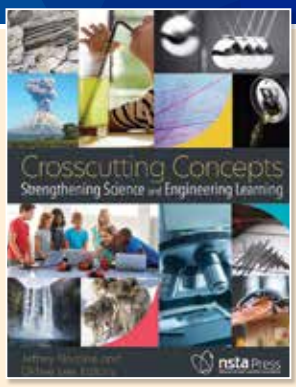

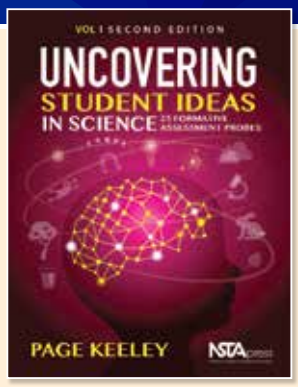

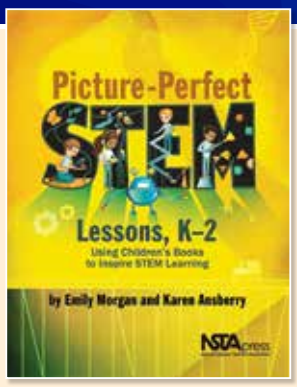

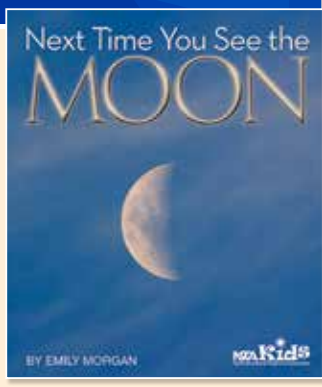

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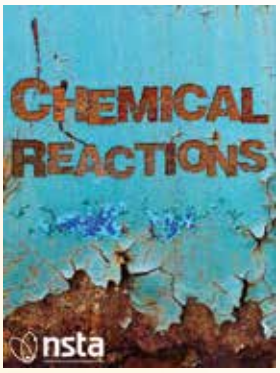

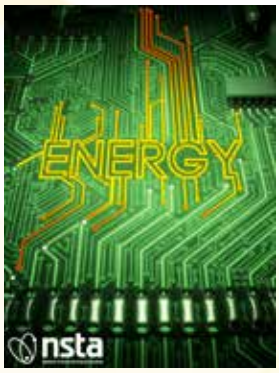

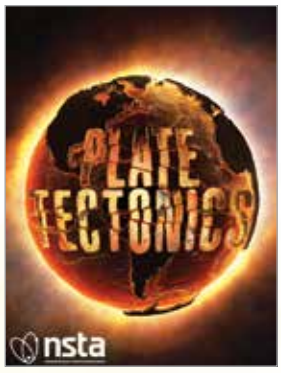

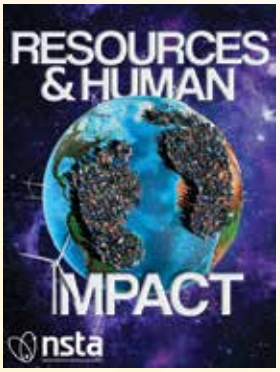

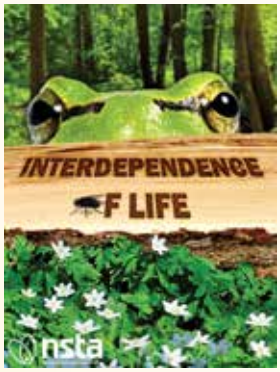

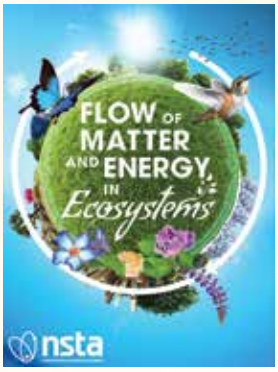

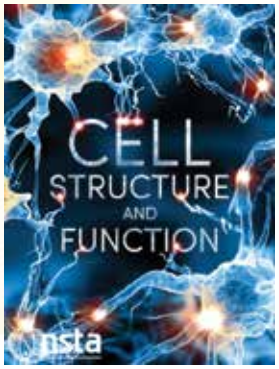

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- Earth's Changing Surfaces
- Electric and Magnetic Forces
- Energy
- Explaining Matter With Elements, Atoms, and Molecules
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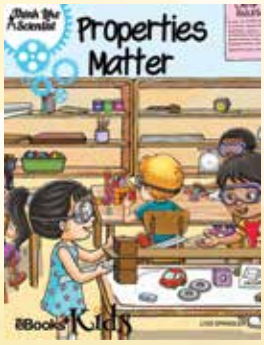
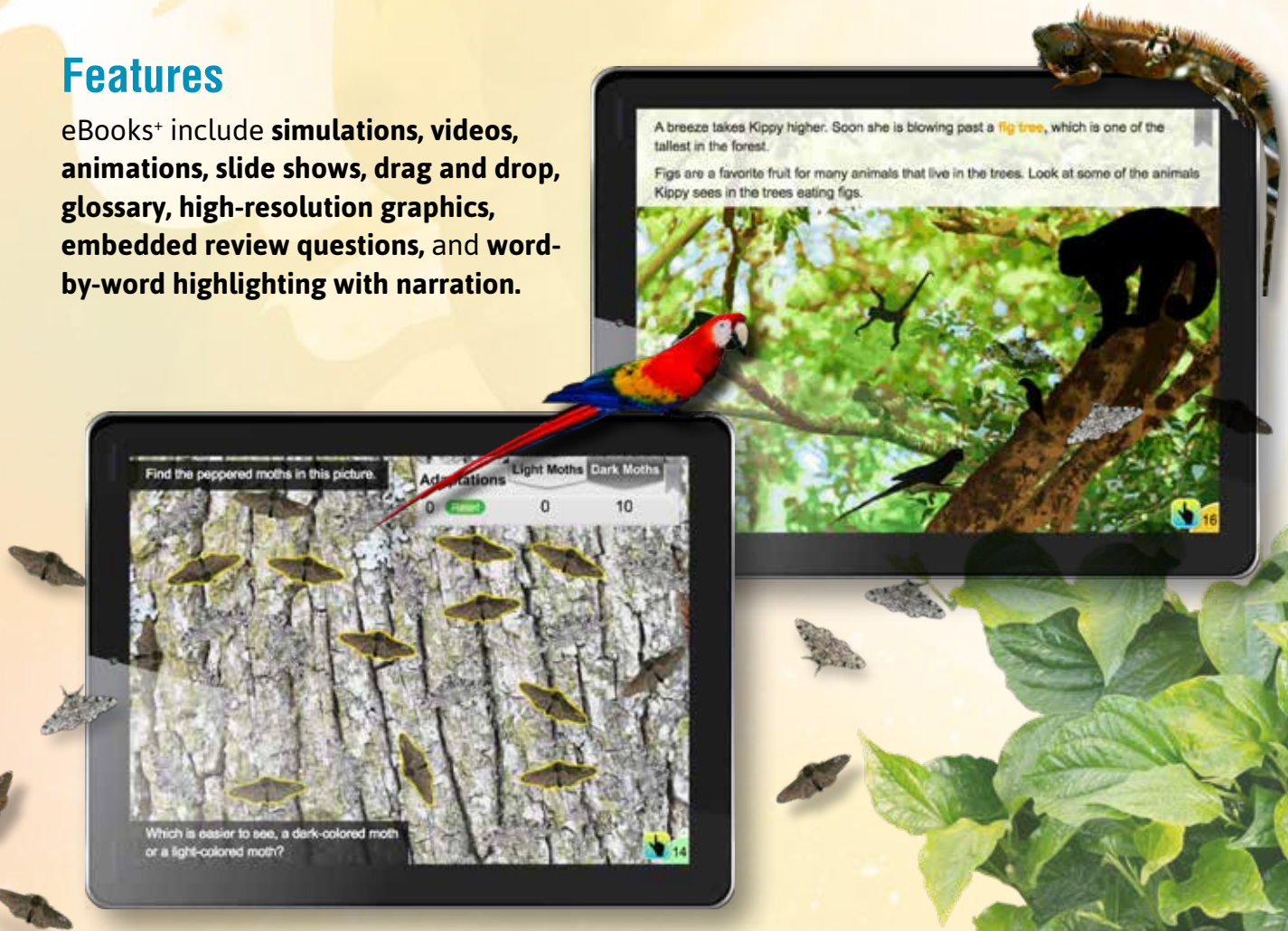
STEM for kids! Phenomenon-based, three-dimensional learning content that's designed using the 5E model and incorporates the science and engineering practices (SEPs), crosscutting concepts (CCCs), and disciplinary core ideas (DCIs) of three-dimensional learning.

To see complete list of eBooks+*Kids*, go to *my.nsta.org/ebooks/GradesK-5*



Features

eBooks+ include **simulations, videos, animations, slide shows, drag and drop, glossary, high-resolution graphics, embedded review questions,** and **word-by-word highlighting with narration.**



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

INFORMATION
https://my.nsta.org/ebooks

For questions, contact *ebooks@nsta.org*.

FREE TRIAL
https://my.nsta.org/ebooks/freetrial

Promote sustained changes in classroom practice with NSTA

NSTA offers tailored packages of virtual professional learning on popular topics—including equity and social justice, accelerating learning, three-dimensional instruction, and teaching science remotely—for schools, districts, or states. Virtual mentoring and coaching opportunities are also available. Programs offered include:

- Making Sense of Three-Dimensional Teaching and Learning Workshop
- Designing Three-Dimensional Lessons and Units Workshop
- Science for All: Equity and Social Justice in the Classroom
- Assessing Three-Dimensional Learning
- Using Student-Work Protocols to Evaluate 3-D Learning

NSTA Now Offers OpenSciEd Professional Learning!

OpenSciEd

Is your district implementing OpenSciEd open-source instructional materials? NSTA is a certified professional learning provider of OpenSciEd professional learning. Let us support your implementation efforts with professional learning that can be adapted to meet your specific district needs. Contact us to find out how: *professionallearning@nsta.org*.

Visit *www.nsta.org/nsta-district-professional-learning-packages* to see the complete list.

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.

Distance-Learning Strategies That Support Student Sensemaking

Explore using distance-learning strategies to give students experience with relevant phenomena in order to create the need to engage in science learning to explain what they've observed.

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.

Formats include individual or series of web seminars, as well as virtual workshops, using both synchronous and asynchronous strategies.

Learn about more professional learning opportunities at *www.nsta.org/district*

Just-in-Time Professional Learning at Your Fingertips

NSTA Web Seminars are free, live professional learning experiences that use online learning technologies to allow participants to interact with nationally acclaimed experts; NSTA Press authors; and scientists, engineers, and education specialists from NSTA partner organizations.

All web seminars are recorded for watching on-demand in the web seminar archive.

Register at *www.nsta.org/webseminars*

GROW YOUR TEACHERS IN PARTNERSHIP WITH NSTA.

Maximize Your Professional Learning Funds

- No matter the size of your district, we have options to meet your professional learning (PL) needs
- Use of NSTA website and Private Cohort
- Curriculum-Based PL that integrates equity and social justice
- Mentoring for District, School Leadership (Curriculum Supervisors, Instructional Coaches, Principals), and Teacher Leaders.
- Ongoing support for the School/District Leadership Team
- Virtual Instructional Coaching for implementation of curriculum and enactment of strategies to support equity.

- Use of Asynchronous PL Units and District Administrator Online Dashboard to track and support teacher progress.
- Professional Learning Bundles with Resources for personalized PL (NSTA has a menu of book and topic studies)
- Become an NSTA District Partner: Participate in PL web seminars through the year focused on American Rescue Plan (ARP) topics, Digital Formative Assessment Probes, Membership to NSTA, Cohort Resources, and Community Areas.
- Mentoring support in contemporary research in science education to reimagine your existing curriculum.

WANT TO EXPLORE YOUR OPTIONS?

https://www.nsta.org/nsta-district-professional-learning-packages

Speak to a member of the NSTA Professional Learning Team at *professionallearning@nsta.org*

Schools and Districts Membership Options

NSTA has the professional learning opportunities and resources your teachers of science need to continue on their professional learning path

Take your school or district to the next level with a cost-effective NSTA membership that will provide a vast amount of digital resources, customized professional learning for all your teachers, and yearlong access to online leaders and mentors.

The School Partner Program (SPP) is ideal for teachers in one school building, where the number of teachers of science is at least 20 individuals. The District Partner Program (DPP) is ideal for teachers in one school building, where the number of teachers of science is less than 20 individuals. The DPP is also ideal for a cohort composed of individual teachers from more than one school. Both SPP and DPP require an administrator as part of the cohort. The minimum number of participants in a cohort is five.

All School & District Memberships Include:

- Interactive E-Books+ Professional Collection
- Journals
- Daily Do Lesson Plans
- Monthly Professional Learning Web Seminars
- Public Forums & Listservs
- NSTA Conferences & Virtual Events
- Self-paced short courses

School Partner Program

$1,950 */School building**

Includes every teacher in your school.

District Partner Program

$99 */Teacher**

High-quality learning experience for teachers in your district.

All SPP and DPP Cohorts receive a landing page on the NSTA Website with a private forum, local leaderboards for teacher recognition, and an Administrator's Dashboard with usage and learning data.

* Annual renewal

American Rescue Plan

NSTA has the resources you need to address learning loss and provide science learning to your students.

The American Rescue Plan COVID relief for K–12 schools provides funding so that districts and schools can address the significant academic needs of students.

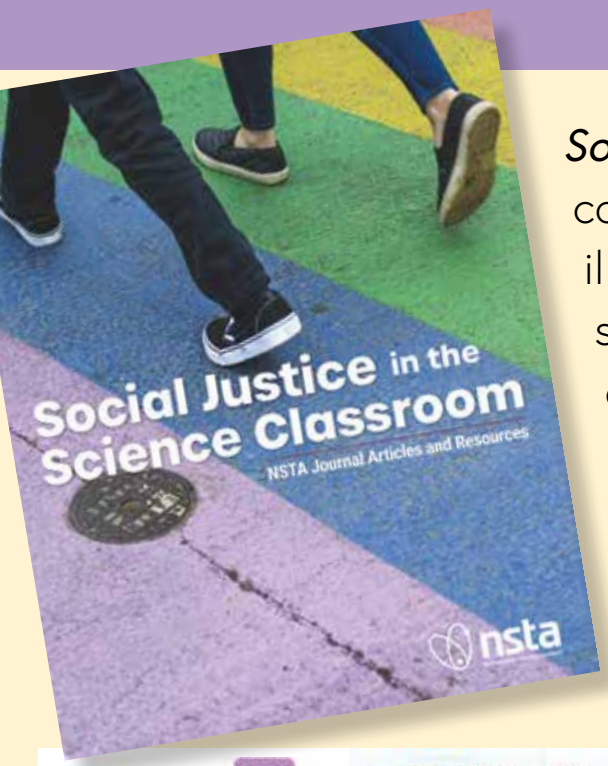
The NSTA School and District Learning Package includes science and STEM lesson plans, resources for students, resources that integrate science and literacy instruction, customized professional learning for all your teachers, science standards resources, NSTA membership, and so much more that will help you focus on the immediate challenges of learning loss and recovery caused by the pandemic and will meet your long-term goals of providing high-quality science education through the lens of equity and social justice.

This package provides standards-based science lesson plans and student resources that support instruction and professional learning opportunities for all your teachers.

All the features of the school district partner program *plus*

- NSTA Collections of resources targeting learning loss, distance learning, and literacy integration
- Exclusive access to 24 NSTA Professional Learning sessions for all your teachers that address learning loss, distance learning, and literacy integration with science/STEM and equity and social justice.
- Enhance your package with optional add-ons of interactive e-books for students and digital *Uncovering Student Ideas* formative assessment probes.

Learn more at
www.nsta.org/american-rescue-plan



Social Justice in the Science Classroom is a compilation of 19 articles from NSTA journals illustrating the successful incorporation of socially just teaching practices in the science classroom. This volume brings issues, strategies, and methods of addressing social justice to the forefront, from kindergarten through college, in public, private, charter, informal science settings, or other school environments.

#: **PKEB372X**

Members: **$15.96**

Non-members: **$19.95**

COMING SOON!

The *Social Justice in the Science Classroom* bundle is your clearinghouse for resources, strategies, and techniques for motivating and increasing student engagement in science—from kindergarten through college—through the lens of equity and social justice. The bundle includes the *Social Justice in the Science Classroom* e-book, a set of pre-recorded content, and an Educator Tool Kit.

SAVE THE DATES

nsta

NATIONAL CONFERENCE ON SCIENCE EDUCATION

HOUSTON 22

MARCH 31–APRIL 3

nsta

NATIONAL CONFERENCE ON SCIENCE EDUCATION

CHICAGO 22

JULY 21–24

JOIN US FOR OUR NATIONAL CONFERENCES NEXT YEAR

For more information, please visit
www.nsta.org/conferences-and-events.

NSTA PROGRAMS

NSTA Awards recognize exceptional individuals for their accomplishments and outstanding work in the science education field.

Shell Science Lab
REGIONAL CHALLENGE
nsta
National Science Teaching Association

20 YEARS | cybermission
ACCEPT THE CHALLENGE

TOSHIBA | nsta
ExploraVision
30 YEARS OF INSPIRING SCIENCE AND IMAGINATION

Gains in the Education of Mathematics and Science
GEMS

JSHS
JUNIOR SCIENCE AND HUMANITIES SYMPOSIUM

www.nsta.org/awards-and-competitions

And the winner is . . .

YOU!

Have you ever dreamed of yourself as the star, walking the *"red carpet"* to receive your award? With over 15 teacher award programs, your dream could become a reality.

Did you know more than $80,000 in cash and prizes is just waiting for you to claim? NSTA Award Programs honors teachers and principals from all grade levels for outstanding work. You may nominate yourself, a fellow teacher, or a student.

DARE TO DREAM!

- Angela Award
- Ron Mardigian Memorial Bio-Rad Explorer Award
- Corteva Agriscience Excellence in Agricultural Science Award
- Distinguished Informal Science Award
- Distinguished Service to Science Education Award
- Distinguished Teaching Award
- Fellow Award
- Legacy Award
- Maitland P. Simmons Memorial Award for New Teachers
- Northrop Grumman Foundation Excellence in Engineering Education Award
- Robert H. Carleton Award
- Robert E. Yager Exemplary Teaching Award
- SeaWorld/Busch Gardens Environmental Educator of the Year
- Shell Science Teaching Award
- Shell Urban Science Educators Development Award
- Sylvia Shugrue Award
- Vernier Technology Awards

www.nsta.org/awards-and-recognition-program

Get involved at NSTA

By serving NSTA, you are actively engaged in shaping the future of science education

One of the most fulfilling ways to have an impact on science education is to participate at a national level.

The NSTA Board of Directors and Council work together to promote excellence and innovation in science teaching and learning for all.

Learn how to get involved with a committee
www.nsta.org/standing-committees

Title Index

Author Index

Grade Band Index

NSTA Regional Product Representatives

Would your school or district profit from a presentation on the full range of NSTA resources and literacy solutions?

If so, please find your state in the list below and contact your regional product representative. NSTA product reps can arrange for special pricing for bulk purchases, introduce you and your team to professional development opportunities, and even set up districtwide licenses that provide digital access to bestselling NSTA books.

Want more information? **Kim Stilwell**, NSTA's Director of Business Development — Tel: 703.312.9247 • *kstilwell@nsta.org*

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- Snapshots of our hot-off-the-press resources so you know what's next on your reading list

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