

INQUIRY Science

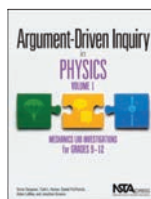


ARGUMENT-DRIVEN INQUIRY IN EARTH AND SPACE SCIENCE: Lab Investigations for Yrs 6-10

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.

NST7033 • \$69.95

9781760567033

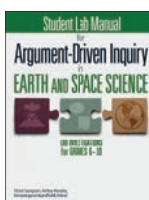


ARGUMENT-DRIVEN INQUIRY IN PHYSICS, VOLUME 1: Mechanics Lab Investigations for Grades 9-12

Physics teachers—great news! Now there's a guide to argument-driven inquiry (ADI) especially for you. This book helps you build your students' science proficiency. It makes labs more authentic by teaching physics students to work the way scientists do. Argument-Driven Inquiry in Physics, Volume 1 focuses on mechanics and has two parts.

NST6704 • \$69.95

9781760567040

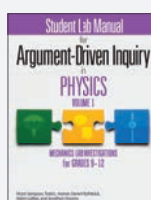


STUDENT LAB MANUAL FOR ARGUMENT-DRIVEN INQUIRY IN EARTH AND SPACE SCIENCE: Lab Investigations for Grades 6-10

Argument-Driven Inquiry in Earth and Space Science is a one-stop source of expertise, advice, and investigations to help Earth and space science students work the way scientists do. The book includes a well-organized series of 23 field-tested labs that cover a variety of topics such as Earth's place in the universe, the history of Earth, Earth's systems, weather and climate, and Earth and human activity.

NST7590 • \$35.95

9781760567590

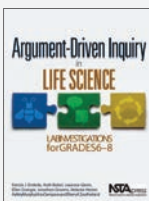


STUDENT LAB MANUAL FOR ARGUMENT-DRIVEN INQUIRY IN PHYSICS, VOLUME 1: Mechanics Lab Investigations for Grades 9-12

Argument-Driven Inquiry in Physics, Volume 1 is a one-stop source of expertise, advice, and investigations to help physics students work the way scientists do. The book includes a well-organized series of 23 field-tested labs that cover a variety of topics related to mechanics, including forces and interactions, energy, work, and power.

NST7606 • \$35.95

9781760567606

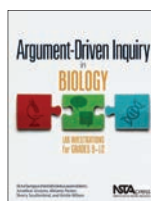


ARGUMENT-DRIVEN INQUIRY IN LIFE SCIENCE: Grades 6-8

Argument-Driven Inquiry in Life Science provides 20 field-tested labs to help your students learn how to read, write, speak and use maths in the context of science. These investigations are much more authentic than traditional laboratory activities because students both learn important content and participate in scientific practices. The students design their own method, develop models, collect and analyse data, and critique information.

NST9020 • \$69.95

9781760019020

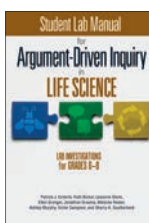


ARGUMENT DRIVEN INQUIRY IN BIOLOGY: Grades 9-12

Are you interested in using argument-driven inquiry for high school lab instruction but just aren't sure how to do it? Argument-Driven Inquiry in Biology is a one-stop source of expertise, advice and investigations. Many of today's teachers - like you - want to find new ways to engage students in scientific practices and help students learn more from lab activities.

NST9211 • \$69.95

9781760019211

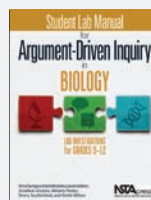


STUDENT LAB MANUAL FOR ARGUMENT-DRIVEN INQUIRY IN LIFE SCIENCE: Grades 6-8

Student Lab Manual for Argument-Driven Inquiry in Life Science is a one-stop source of expertise, advice and investigations, with the information and materials you need to start using argument-driven inquiry for middle years lab instruction right away. The book includes 20 field-tested labs that cover molecules and organisms, ecosystems, biological evolution and heredity.

NST0515 • \$49.95

9781760010515

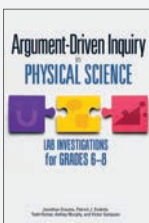


STUDENT LAB MANUAL FOR ARGUMENT-DRIVEN INQUIRY IN BIOLOGY: Grades 9-12

The bestselling Argument-Driven Inquiry in Biology provides biology labs that help your students learn important content and scientific practices. Student Lab Manual for Argument-Driven Inquiry in Biology has everything your students need to fully engage in the lab activities, and you may find it convenient to give a copy to each student to save time at the photocopier.

NST8962 • \$49.95

9781760018962

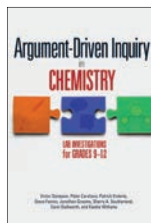


ARGUMENT-DRIVEN INQUIRY IN PHYSICAL SCIENCE: Lab Investigations for Grades 6-8

Argument-Driven Inquiry in Physical Science is a one-stop source of expertise, advice and investigations to help physical science students work the way scientists do. Many of today's middle years teachers - like you - want to find new ways to engage students in scientific practices and help students learn more from lab activities.

NST1048 • \$69.95

9781760561048

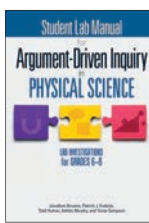


ARGUMENT-DRIVEN INQUIRY IN CHEMISTRY: Lab Investigations for Grades 9-12

Argument-Driven Inquiry in Chemistry will provide you with the information and instructional materials you need to start using argument-driven inquiry for your secondary school lab instruction. This book is a one-stop source of expertise, advice and investigations to help chemistry students work the way scientists do.

NST9082 • \$69.95

9781760019082



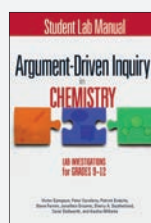
STUDENT LAB MANUAL FOR ARGUMENT-DRIVEN INQUIRY IN PHYSICAL SCIENCE: Lab Investigations for Grades 6-8

Student Lab Manual for Argument-Driven Inquiry in Physical Science is a one-stop source of expertise, advice and investigations, with the information and materials you need to start using this method right away. The book includes 22 field-tested labs that cover matter, motion and forces, energy and waves. They give your students an opportunity to design their own methods, develop models, collect and analyse

data, generate arguments, and critique claims and evidence.

NST1109 • \$49.95

9781760561109



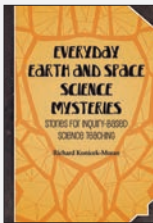
STUDENT LAB MANUAL FOR ARGUMENT-DRIVEN INQUIRY IN CHEMISTRY: Lab Investigations for Grades 9-12

Argument-Driven Inquiry in Chemistry includes 30 field-tested labs that cover a broad range of topics related to chemical reactions and matter's structure and properties. The investigations give your students an opportunity to design their own methods, develop models, collect and analyse data, generate arguments, and critique claims and evidence. This manual provides the student materials you

need to guide your students through these investigations.

NST0508 • \$49.95

9781760010508

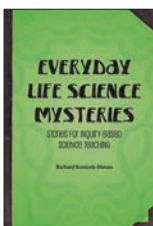


EVERYDAY EARTH AND SPACE SCIENCE MYSTERIES

Richard Konicek-Moran • 9781760010850

What are the odds that a meteor will hit your house? Do you actually get more sunlight from Daylight Saving Time? Where do puddles go? By presenting everyday mysteries like these, *Everyday Earth and Space Science Mysteries* will motivate your students to carry out hands-on science investigations and actually care about the results. These 19 open-ended mysteries focus exclusively on Earth and space science, including astronomy, energy, climate and geology. The stories that accompany each science lesson come with lists of science concepts to explore, year level-appropriate strategies for using them and explanations of how the lessons align with national standards. They also relieve you of the tiring work of designing inquiry lessons from scratch.

NST0850 • \$29.95

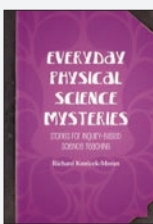


EVERYDAY LIFE SCIENCE MYSTERIES: Stories for Inquiry-Based Science Teaching

Richard Konicek-Moran • 9781760010867

How do tiny bugs get into oatmeal? What makes children look like - or different from - their parents? Where do rotten apples go after they fall off the tree? By presenting everyday mysteries like these, this book will motivate your students to carry out hands-on science investigations and actually care about the results. These 20 open-ended mysteries focus exclusively on biological science, including heredity, botany, human physiology, zoology, reproduction, life cycles and health. The stories that accompany each science lesson come with lists of science concepts to explore, year level-appropriate strategies for using them and explanations of how the lessons align with national standards. They also relieve you of the tiring work of designing inquiry lessons from scratch.

NST0867 • \$29.95

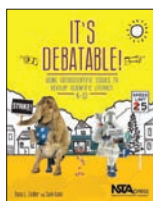


EVERYDAY PHYSICAL SCIENCE MYSTERIES: Stories for Inquiry-Based Science Teaching

Richard Konicek-Moran • 9781760010874

What can make a ball roll faster? Does the temperature of wood affect the heat of a fire? How can old-fashioned tin can telephones teach today's students about sound and technology? By presenting everyday mysteries like these, *Everyday Physical Science Mysteries* will motivate your students to carry out hands-on science investigations and actually care about the results. The 21 open-ended mysteries focus exclusively on physical science, including motion, friction, temperature, forces and sound. The stories that accompany the science lessons come with lists of science concepts to explore, year level-appropriate strategies for using them and explanations of how the lessons align with national standards.

NST0874 • \$29.95

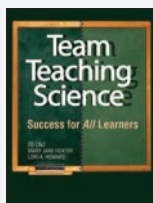


IT'S DEBATABLE, K-12

Dana Zeidler, Sami Kahn • 9781760019266

Both practical and content-rich, *It's Debatable!* doesn't shy away from controversy. Instead, the authors encourage you and your students to confront just how messy the questions raised by science (and pseudoscience) can be. After all, as the authors note, "The only way for our students to be prepared for participation in societal discourse is to have practice in their school years, and what better place than the science classroom?"

NST9266 • \$59.95

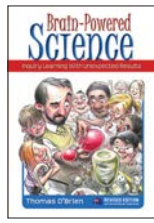


TEAM TEACHING SCIENCE

Ed Linz, Mary Jane Heater, Lori Howard • 9781760019280

In *Team Teaching Science*, Ed Linz, Mary Jane Heater and Lori A. Howard demonstrate the truth in the old adage "two heads are better than one". This guide for developing successful team-teaching partnerships that maximise student learning will help preservice and inservice special education and science teachers in grades K-12, as well as methods professors in science education programs who want to cover special needs issues in their curriculum. .

NST9280 • \$45.95



BRAIN-POWERED SCIENCE: Inquiry Learning With Unexpected Results

Thomas O'Brien • 1760010805

Thomas O'Brien takes 33 science inquiry activities higher by using experiments based on the science of a 'discrepant event' - an experiment or demonstration in which the outcome is not what students expect. While this book is designed for use with Year 6-12 students, F-5 Australian Curriculum: Science content descriptions are also included to illustrate the appropriate prerequisite work that students should engage in prior to participating in these activities. This thought-provoking text includes many up-to-date online resources, as well as extensions to each of the physical science, biology and chemistry activities.

NST0805 • \$37.95



MORE BRAIN-POWERED SCIENCE

Thomas O'Brien • 1 74170 664 5

Thomas O'Brien uses 22 inquiry-oriented discrepant events to challenge students' preconceived ideas and urge them to critically examine evidence, draw inferences and review their initial explanations with their peers. *More Brain-Powered Science* is the perfect dual-purpose activity book for Years 6-12 science teachers who aim to stimulate and motivate their students while expanding their own scientific understanding. This revised Australian edition features correlations with the strands of the Australian Curriculum: Science, including various content descriptions for the science activities.

NST0935 • \$37.95

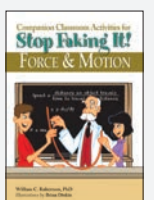


EVEN MORE BRAIN-POWERED SCIENCE

Thomas O'Brien • 9781760010843

This Australian edition of *Even More Brain-Powered Science* uses 13 inquiry-oriented, discrepant events to dispute misconceptions and challenge students to critically examine evidence, draw inferences and review their initial explanations with their peers. These interactive lessons use readily available, inexpensive materials to engage the natural curiosity of both teachers and students and create new levels of scientific understanding, and include links to the Australian Curriculum: Science, including the rationale, aims, cross-curriculum priorities, content descriptions and links to other learning areas.

NST0843 • \$37.95

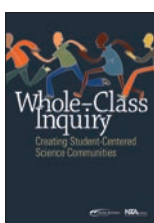


COMPANION CLASSROOM ACTIVITIES FOR STOP FAKING IT! FORCE AND MOTION

William Robertson • 9781760017040

Stop Faking It! Force and Motion helped thousands of teachers, parents, and homeschoolers conquer topics from Newton's laws to the physics of space travel. Now *Companion Classroom Activities for Stop Faking It! Force and Motion* proves an ideal supplement to the original book - or a valuable resource of its own. The hands-on activities and highly readable explanations allow students to first investigate concepts, then discuss learned concepts, and finally apply the concepts to everyday situations. Each activity includes an objective, materials list, National Science Education Standards addressed, approximate completion time, and detailed step-by-step instructions.

NST7040 • \$39.95



WHOLE-CLASS INQUIRY

Dennis Smithenry, Joan Gallagher-Bolos • 9781760019297

Dennis Smithenry and Joan Gallagher-Bolos want to help you transform your secondary school science classroom into a student-led scientific community in which your students take ownership of their projects and mimic real-world exploration. *Whole-Class Inquiry* provides firsthand descriptions of Joan's aims and observations - and her introspective analysis - while she skilfully moves her chemistry class toward the ultimate goal of whole-class inquiry. Dennis's commentary and research affirm the value of the process. On the two included DVDs you can see and hear the subtle details and methods involved in the transformation as the class completes three different projects onscreen.

NST9297 • \$59.95



GENIUS HOUR

Andi McNair • 9781760017408

Genius Hour provides educators with the tools that they need to successfully implement Genius Hour, or passions projects, in the classroom. Presented through an easy-to-follow six-step strategy, teachers will utilise the six Ps - passion, plan, pitch, project product and presentation - as a map for students to follow as they create, design and carry out projects. Students will experience personalised learning through these self-driven projects, application of standards and real-world skills, and opportunities to learn through

failure and reflection. The book includes handouts, suggested online resources, and tips and tricks to make the Genius Hour process meaningful for students and manageable for educators.

PRU7408 • \$24.95



GOT DATA? NOW WHAT?

Laura Lipton, Bruce Wellman • 9781743303344

Data can elicit powerful conversations about practice, but only if they are the right data and used strategically. Got Data? Now What? offers the strategies and tools necessary to identify what's relevant and transform struggling groups into powerful communities of learners. With this resource, group leaders can guide their teams in data-driven problem solving and decision making to improve student learning. Authors Laura Lipton and Bruce Wellman provide: a guided tour of data terms and practices, relevant anecdotes that

illustrate healthy data use and collaboration and end-of-chapter exercises for individual and group reflection.

SOT3344 • \$25.95



WHOLE SCHOOL PROJECTS

Kieran Egan • 9781760018894

In this new and practical contribution to the importance of imagination in learning, the authors demonstrate how individual contributions to a coherent large-scale project can produce enormous results of great educational value. Helping all participants to feel pride for more than just their own individual work, such Whole School Projects (WSP) encourage appreciation for the abilities of others and enable everyone involved to recognise that all kinds of learning styles, intelligences and ability levels play an integral part in

constructing the whole. Most important, WSPs invigorate student engagement and build community within a school.

TCP8894 • \$45.95

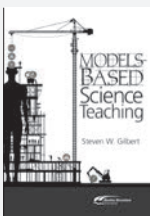


INTEGRATING THINKING IN SCIENCE: Revised Edition

Imogene Forte - Sandra Schurr • 1 74101 831 5

Includes: an overview of Howard Gardner's Theory of Multiple Intelligences, a clear explanation of Bloom's Taxonomy of thinking skills, calendars to enhance the educational process on a daily basis, explanations of cooperative learning classrooms, and authentic assessment procedures and portfolios. Activities in: Geology, Meteorology, Physics, Chemistry, Zoology, Ecology, Life Sciences and General Science.

INA8315 • \$39.95



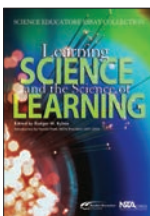
MODELS-BASED SCIENCE TEACHING

Steven Gilbert • 9781760010928

Humans perceive the world by constructing mental models - telling a story, interpreting a map, reading a book. Every way we interact with the world involves mental models, whether creating new ones or building on existing models with the introduction of new information. In Models-Based Science Teaching, author and educator Steven Gilbert explores the concept of mental models in relation to the learning of science and how we can apply this understanding when we teach science. Practising science teachers at all levels who

want to explore new and better ways to frame and model science will find value in this book.

NST0928 • \$32.95



LEARNING SCIENCE AND THE SCIENCE OF LEARNING: Science Educators' Essay Collection

Rodger Bybee • 9781760561017

In this 12-chapter volume, noted science educators discuss recent findings on how students and teachers learn - and translate those findings into practical classroom applications.

NST1017 • \$39.95

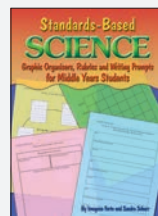


INDEPENDENT SCIENCE CHALLENGES

Charlotte Samiec • 1 74101 617 7

This is an excellent science resource that incorporates a high-level, thinking skills approach to over 40 interesting and sometimes controversial topics such as: • global warming • cloning • nuclear power • weapons of mass destruction • tsunamis • evolution • GM food • and much, much more! The science challenges are great learning experiences because they can be differentiated to suit your students using multiple intelligences and learning styles.

HB6177 • \$29.95



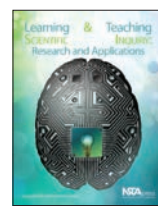
STANDARDS-BASED SCIENCE - GRAPHIC ORGANISERS, RUBRICS & WRITING PROMPTS FOR MIDDLE YEARS STUDENTS

Imogene Forte • 1 74025 594 1

When students are meaningfully involved in active learning tasks they are more enthusiastic about instructional activities. Graphic organisers, rubrics and writing prompts are tools teachers use to encourage such involvement from their students. The standards-based graphic organisers in this book have been designed to provide busy teachers with a bank of resources from which to

draw as the need arises.

INA3475 • \$35.95



LEARNING AND TEACHING SCIENTIFIC INQUIRY

James Jadrach, Crystal Bruxvoort • 9781760019327

Science teacher educators, curriculum specialists, professional development facilitators and K-8 teachers are bound to increase their understanding and confidence when teaching inquiry after a careful reading of this definitive volume. Advancing a new perspective, James Jadrach and Crystal Bruxvoort assert that scientific inquiry is best taught using models in science rather than focusing on scientists' activities. The authors place additional emphasis on sharing cognitive science research that provides valuable insight into how students learn and how instructors should teach.

NST9327 • \$45.95



INQUIRE: A Guide to 21st Century Learning

Robert King, Janae Sebranek & Chris Erickson • 1742391533

Inquire is a complete learning guide, covering 21st century skills, traditional study skills, the inquiry process and project-based instruction. It is best used as an across-the-curriculum handbook, helping students with all aspects of their thinking and learning. Inquire can also be used as the main resource in a study-skills course or in inquiry-based and project-based programs. Inquire includes three main parts: 1. Building 21st Century Skills covers the key skills, from critical thinking to communicating to preparing for tests. 2. Using the Inquiry Process provides a step-by-step

guide to thoughtful learning through questioning, researching and presenting. 3. Developing Projects offers a wide variety of exciting project ideas.

HB1533 • \$69.95

ebook available: eHB1533 • \$11.95

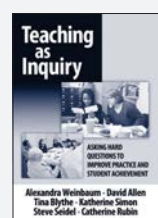


INQUIRE: A Guide to 21st Century Learning, Teacher's Guide

Robert King, Janae Sebranek & Chris Erickson • 1742399980

The Inquire Teacher's Guide introduces you to Inquire, shares the pedagogy that prompted its development, offers planning and instruction guidelines, and provides chapter-by-chapter lesson plans. The Teacher's Guide is divided into two main parts. Part I introduces you to the Inquire handbook and helps you implement instruction thoughtfully and meaningfully. Part II provides chapter-by-chapter lesson plans. Inquire is a complete learning handbook, reflecting the latest and best research on thinking and literacy from around the world.

HB9980 • \$21.95



TEACHING AS INQUIRY

David Allen, Tina Blythe, Catherine Rubin, Steve Seidel, Katherine Simon, Alexandra Weinbaum • 1742391670

This book offers an engaging and effective approach to improving teacher and student learning. Based on the experiences of three leading educational organisations, the authors provide invaluable, research-based guidelines for incorporating inquiry into teacher's instructional practices and student work as part of the ongoing work of schools. In addition to discussing the lessons learned and questions raised by inquiry work.

TCP1670 • \$27.95

