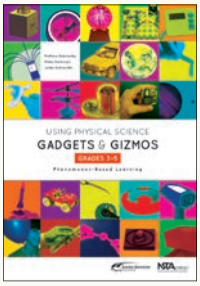
INQUIRY Science PRIMARY

Hawker Brownlow EDUCATION

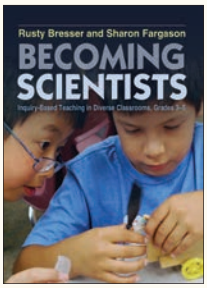


USING PHYSICAL SCIENCE GADGETS & GIZMOS, GRADES 3-5

Kohtamaki, Korhonen, Bobrowsky • 9781760019129

What student - or teacher - can resist the chance to experiment with Velocity Radar Guns, Running Parachutes, Super Solar Racer Cars and more? The 30 experiments in Using Physical Science Gadgets and Gizmos, Grades 3-5, let your primary school students explore a variety of phenomena across a range of topics. The phenomenon-based learning (PBL) approach used by the authors is as educational as the experiments are attention-grabbing. Instead of putting the theory before the application, PBL encourages students to first experience how the gadgets work and then grow curious enough to find out why. With this book, you and your students will have some serious fun.

NST9129 • $45.95

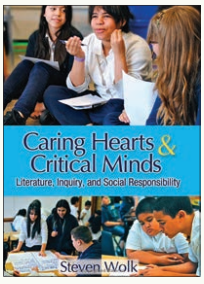


BECOMING SCIENTISTS: Grades 3-5

Sharon Fargason, Rusty Bresser • 9781760017798

Good science starts with a question, perhaps from the teacher at the start of a science unit of from the children as they wonder what makes a toy car move, how food decomposes or why leaves change colour. Using inquiry science, children discover answers to their questions in the same way that scientists do - they design experiments, make predictions, observe and describe, offer and test explanations, and share their conjectures with others. In essence, they construct their own understanding of how the world works through experimentation, reflection and discussion.

SHP7798 • $35.95



CARING HEARTS & CRITICAL MINDS: Literature, Inquiry and Social Responsibility

Steven Wolk • 9781760017972

This book demonstrates how to integrate inquiry learning, exciting and contemporary literature, and teaching for social responsibility across the curriculum. He takes teachers step-by-step through the process of designing and inquiry-based literature unit and then provides five full units used in real middle-years classrooms. Featuring a remarkable range of recommended resources and hundreds of novels from across the literary genres, this book gives teachers a blueprint for creating dynamic units with rigorous lessons about topics kids care about.

SHP7972 • $39.95

A HEAD START ON SCIENCE

William Ritz • 9781760014384

Nurture little scientists natural curiosity with this treasury of 89 hands-on science activities specifically designed for children ages 3-7. The activities are grouped into seven stimulating topic areas: the senses, weather, physical science, creepy-crawlies, water and water mixtures, seeds, and nature walks. Because the activities have been field-tested by more than a thousand teachers over ten years, you'll find this collection unusually easy to use in a variety of settings, including primary schools, preschool programs and day care. In addition to clear background and a master materials list, you get step-by-step procedures and comments and questions to pose to children.

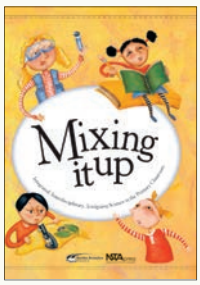
NST4384 • $45.95

TO LOOK CLOSELY: Science and Literacy in the Natural World

Laurie Rubin • 9781760017781

In this book the author demonstrates how nature study can help students become careful, intentional observers of all they see, growing into stronger readers, writers, mathematicians and scientists in the process. From setting a tone of inquiry-based thinking in the classroom to suggesting specific units of study for reading, writing and science, Laurie guides teachers step-by-step through the basics of how to integrate the skills acquired through nature study into every subject. You will also discover all the ways this purposeful work nurtures 'green' citizens who grow up determined to value and protect the natural environment.

SHP7781 • $359.95

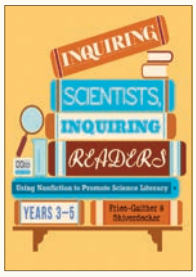


MIXING IT UP

Susan Koba • 9781760014469

This book - a compilation of 25 practical articles from NSTA's elementary school journal Science and Children - offers a wealth of lesson plans and idea starters using interdisciplinary, integrated, and thematic approaches. Discover how a language arts unit on survival can include student inquiry into properties of ice, how to improve student's observational skills as they write haiku about nature, and how to use data collection and math in mapping the ocean floor. To engage students schoolwide in the great outdoors, several articles offer project-based units that are widely adaptable.

NST4469 • $19.95

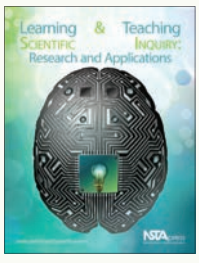


INQUIRING SCIENTISTS, INQUIRING READERS: Years 3–5

Jessica Fries-Gaither, Terry Shiverdecker • 9781760014377

In Inquiring Scientists, Inquiring Readers, science educators Jessica Fries-Gaither and Terry Shiverdecker help teachers blend literacy into elementary science instruction. Research-based and teacher-friendly, the book shows how inquiry can engage your students in reading nonfiction texts, discussing important science concepts, and writing to both develop understanding and share information. This unique book will show teachers how to teach science using a variety of nonfiction text sets (such as field guides, reference books, and narrative expository texts) and replace individual lessons with a learning-cycle format.

NST4377 • $55.95



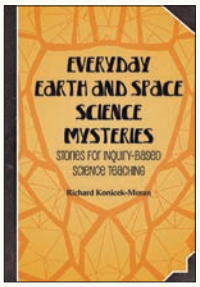
LEARNING AND TEACHING SCIENTIFIC INQUIRY

James Jadrich, Crystal Bruxvoort • 9781760019327

Science teacher educators, curriculum specialists, professional development facilitators and F-8 teachers are bound to increase their understanding and confidence when teaching inquiry after a careful reading of this definitive work. Advancing a new perspective, James Jadrich and Crystal Bruxvoort assert that scientific inquiry is best taught using models in science rather than focusing on scientists' activities. Educators will find detailed examples, practice problems, activities and lesson ideas that apply research findings to practical scenarios for the classroom.

NST9327 • $45.95

+61 3 8558 2444 +61 3 8558 2400 www.hbe.com.au orders@hbe.com.au

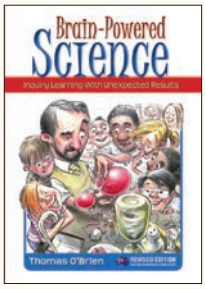


EVERYDAY EARTH AND SPACE SCIENCE MYSTERIES: Stories for Inquiry-Based Science Teaching

Richard Konieck-Moran • 9781760010850

Do you actually get more sunlight from Daylight Saving Time? Where do puddles go? 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 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



BRAIN-POWERED SCIENCE

Thomas O'Brien • 9781760010805

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.

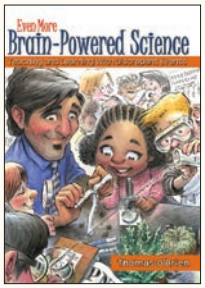
NST0805 • $37.95

MORE BRAIN-POWERED SCIENCE: Inquiry Learning With Unexpected Results

Thomas O'Brien • 9781760010874

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 • $29.95



EVEN MORE BRAIN-POWERED SCIENCE

Thomas O'Brien • 9781760010843

This book uses 13 inquiry-oriented, discrepant events to dispute misconceptions and challenge students to critically examine evidence, draw inferences and review their initial explanations. These interactive lessons use readily available, inexpensive materials to engage the natural curiosity of both teachers and students including the rationale, aims, cross-curriculum priorities, content descriptions and links to other learning areas. Each easy-to-use chapter includes an expected outcome, an explanation of the science and science education concepts, discussion points, the procedure and a list of related websites

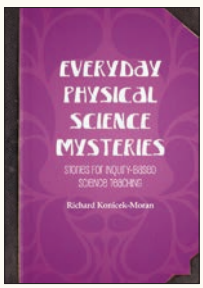
NST0843 • $37.95

INDEPENDENT SCIENCE CHALLENGES: Fascinating Science Projects to Challenge and Extend Students

Charlotte Samiec • 9781741016177

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. Independent Science Challenges is overflowing with curriculum-relevant, creative ideas that cover a balance of scientific disciplines and is user-friendly for both teachers and students!

HB6177 • $29.95

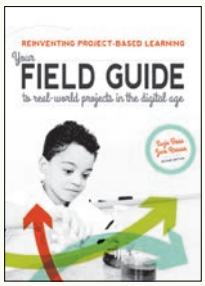


EVERYDAY PHYSICAL SCIENCE MYSTERIES: Stories for Inquiry-Based Science Teaching

Richard Konieck-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



REINVENTING PROJECT-BASED LEARNING, 2ND EDITION

Suzie Boss, Jane Krauss • 9781760015398

Lead student through powerful learning experiences with Reinventing Project-Based Learning, a guide for educators, administrators and professional development specialists who want to make the shift to a more student-driven learning model. Explore proven strategies for overcoming the limitations of the traditional classroom, including a wealth of technology tools for inquiry, collaboration and global connection to support this new vision of instructional design. In the second edition, educators will find the latest tools, a deeper look into assessment strategies, added close-ups on promising practices and a chapter on trends that are posed to shape education in the coming years.

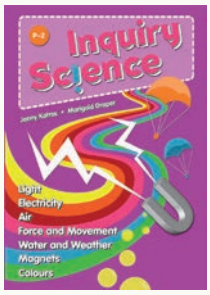
IST5398 • $59.95

TEACHING IN THEMES

D'Andrea, Knoester, Maler • 9781760016234

How can teachers authentically assess the learning of their students and build and their strengths and interests in ways that enrich the larger community? How can schools become places where everyone is learning from each other? These are the questions that guide the work of teachers at the well-known Mission Hill School and that are addressed in this book. Teaching in Themes will help schools incorporate a whole-school, theme-based curriculum that engages students across years F-8.

TCP6234 • $49.95



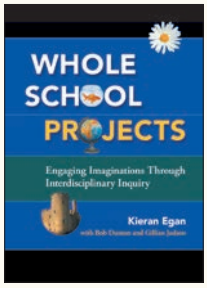
INQUIRY SCIENCE P-2

Jenny Kotros, Marigold Draper • 9781741019052

Inquiry Science is designed to engage children in investigation and discovery through hands on, student-centred activities. These easily resourced learning centre tasks provide opportunities for children to verbalise their observations and make inferences. In addition to a clear explanation of the activity, each lesson includes background information on the topic and suggestions to help children to focus on an experiment and to record and think about the discoveries. Topics include light, electricity, force, weather and water.

HB9052 • $19.95

VELS Edition • HB9052V • $19.95

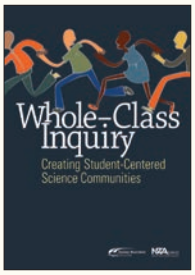


WHOLE SCHOOL PROJECTS

Gillian Judson, Bob Dunton, Kieran Egan • 9781760018894

This book demonstrates 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

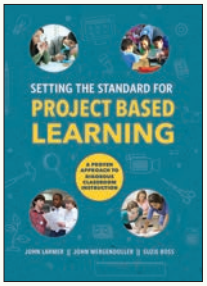


WHOLE-CLASS INQUIRY

Joan Gallagher-Bolos, Dennis Smithenry • 9781760019297

The authors of this book 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.

NST9297 • $59.95

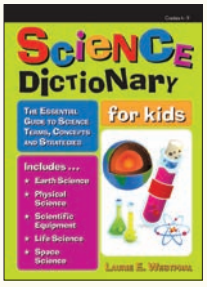


SETTING THE STANDARD FOR PROJECT BASED LEARNING: A Proven Approach to Rigorous Classroom Instruction

John Mergendoller, John Larmer, Suzie Boss • 9781760016135

This book takes readers through the step-by-step process of how to create, implement and assess project based learning using a classroom-tested framework. Examples from all year levels and content areas provide evidence of the powerful effects that PBL can have, including increased student motivation and preparation for university, careers and citizenship; better results on high-stakes tests; a more satisfying teaching experience; and new ways for educators to communicate with parents, communities and the wider world.

114017 • $39.95



SCIENCE DICTIONARY FOR KIDS: The Essential Guide to Science Terms, Concepts and Strategies

Laurie Westphal • 9781760019358

This book provides hundreds of science terms with kid-friendly definitions and illustrations. This guide will help with any science assignment, project or experiment. It also includes a handy reference guide section, complete with commonly used formulas, measurement conversions, charts detailing household chemicals and acids and bases, instructions for using science equipment safely, tips on following the scientific process and information on graphing results and data.

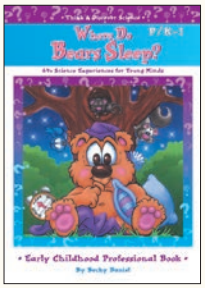
PRU9358 • $29.95

HOW TO . . . ASK THE RIGHT QUESTIONS

Patricia E Blosser • 9781760010898

The kind of questions teachers ask influence the level of thinking operations students engage in. This booklet is devoted to providing some methods which you can use to analyse your questioning strategies and to suggest some techniques for developing variety in the kinds of questions you ask. To illustrate some of the classifications and concepts discussed, excerpts from a videotaped lesson to Year 3 students on magnetism appears at the end of this booklet.

NST0898 • $9.95

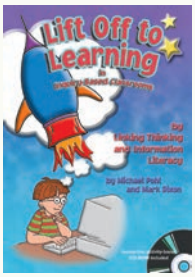


THINK & DISCOVER SCIENCE

Becky Daniel

With this resource, young children can explore 49+ different science topics that cover animals, the human body, our planet, the four elements and more. Each scientific experience is divided into three parts: Hear: Launch the activity by asking a question and having an open-ended discussion. See: Teach the concept by explaining facts and demonstrating a scientific experiment using easy to obtain materials. Do: Reinforce the concept by providing an opportunity for children to discover and learn through hands-on exploration. Wonder is contagious. By modelling scientific exploration with questions and investigations, young children are prepared for their own 'think and discover' experiences. Ages 5–7.

Where Do Bears Sleep? • IFA19132 • $24.95
What Makes Glow-Worms Glow? • IFA19131 • $24.95

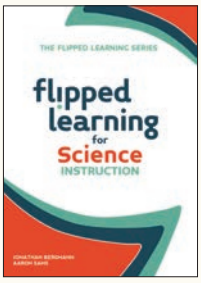


LIFT OFF TO LEARNING: In Inquiry-Based Classrooms + CD

Michael Pohl, Mark Dixon • 9781741016543

Lift Off to Learning brings together thinking skills, inquiry-based learning, and the integration of information and communication technology (ICT) skills in a practical approach for teaching and learning in the primary and middle years. It includes an interactive CD of thinking strategies and a process for developing inquiry-based learning. Lift Off to Learning links ICT to thinking skills. This book is co-authored by best-selling local author Michael Pohl.

HB6541 • $55.00

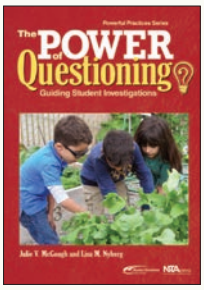


FLIPPED LEARNING FOR SCIENCE INSTRUCTION

Aaron Sams, Jonathan Bergmann • 9781760017491

This book is a practical guide for Science teachers interested in flipping their classrooms. It helps Science teachers deal with the realities of teaching in an increasingly interconnected and digital world. Each chapter explores practical ways to bring flipped learning into the Science classroom, including: How to flip your class and the four hurdles to flipping (thinking, technology, time and training); How your approach to planning changes as you implement flipped learning; How flipping will enhance the laboratory experience for students; What to do in class once you have flipped your class; How to implement the flipped-mastery model into a Science classroom.

IST7491 • $19.95

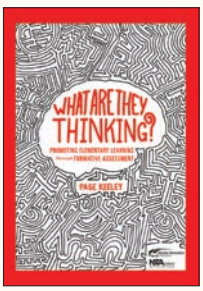


THE POWER OF QUESTIONING: Guiding Student Investigations

Lisa M Nyberg, Julie V McGough • 9781760019068

This pedagogical picture book invites you to nurture the potential for learning that comes from children's irrepressible urges to ask questions. It offers you a solid foundation in both theory and practice, an unusual opportunity to see a model brought to life and standards- and STEM-friendly benefits. Also illustrating how to integrate state standards, the Next Generation Science Standards, the Common Core State Standards and STEM education practices. This is a fresh, lively source of strategies both you and your students will enjoy.

NST9068 • $29.95

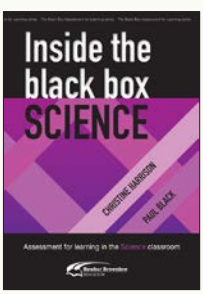


WHAT ARE THEY THINKING?: Promoting Elementary Learning Through Formative Assessment

Page Keeley • 9781760019228

This collection will help you draw out and then recognise what students know - or think they know - about the natural world. What Are They Thinking? is a compendium of 30 'Formative Assessment Probes' columns from NSTA's elementary journal Science and Children. Each chapter provides a sample formative assessment probe, accompanying teacher notes and a bonus feature: a set of study group questions written especially for this compendium by award-winning author Page Keeley.

NST9228 • $55.95



INSIDE THE BLACK BOX: Science

Paul Black, Christine Harrison • 9781760011338

Science provides the means by which learners can interact with the world around them and develop ideas about the phenomena they experience. To be able to learn science in this way, students need help in developing process skills to investigate, and communication skills to question and discuss findings. The specific aim of Inside the Black Box: Science is the improvement of science education, so ideas are put in the context of the aims and expectations of science teaching. The book sets out in detail the research findings on four main ways of practising formative assessment found to be both workable and productive with teachers of science, and it shows teachers how to develop formative work within a science faculty in a school.

GLA1338 • $10.95

INQUIRE: A Guide to 21st Century Learning

Robert King, Janae Sebranek & Chris Erickson • 9781742391533

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.

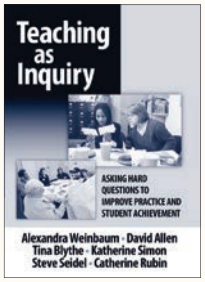
HB1533 • $69.95
ebook available: eHB1533 • $11.95

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

Robert King, Janae Sebranek & Chris Erickson • 9781742399980

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. It covers 21st century skills, basic study skills, the inquiry process and classroom projects.

HB9980 • $21.95

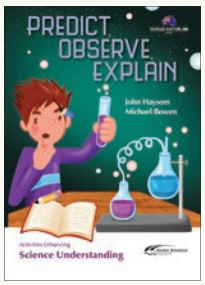


TEACHING AS INQUIRY

David Allen,Tina Blythe, Catherine Rubin, Steve Seidel, Katherine Simon, Alexandra Weinbaum • 9781742391670

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, this volume includes: Specific considerations for determining who should be involved, what work should be under review and how it should be reviewed; and much more.

TCP1670 • $27.95



PREDICT, OBSERVE, EXPLAIN

Michael Bowen & John Haysom • 9781760010942

This book provides Australian science teachers with more than 100 student activities to prove scientific concepts. Using the powerful, field-tested Predict, Observe, Explain (POE) strategy, the book makes it easy for novice and experienced teachers alike to incorporate a teaching method that helps students understand and even enjoy science and learning. This revised Australian edition features a scope and sequence chart showing how each chapter of the book correlates to a learning progression in the Science Understanding strand of the Australian Curriculum: Science for Years F-10.

NST0942 • $39.95

TERMS OF TRADE

- Prices are quoted in Australian dollars ($AUD) and include GST
- All prices are subject to change without notice.
- For New Zealand customers, at the time of invoice, we will convert the amount into New Zealand dollars ($NZD) so that you can pay by credit card in New Zealand dollars ($NZD).
- Full money-back guarantee.
- We do realise it is difficult to order sight unseen. To assist you in your selection, please visit our website <www.hbe.com.au>. Go to 'Browse Books' and most titles will give you the option to view the first few pages of the book. Click 'View Contents' on your selected book page.
- We will supply our books on approval, and if they do not suit your requirements we will accept undamaged returns for full credit or refund. Posters are for firm sale only and will not be sent on approval. Please be aware that delivery and return postage is the responsibility of the customer.
- Freight costs are determined at Australia Post rates, with a minimum delivery charge of $9.50 within Australia and $15.00 for New Zealand for each order.
- Please provide your street address for delivery purposes.

ONLINE 'ON ACCOUNT' ORDERING NOW AVAILABLE!

If you have a pre-existing account with Hawker Brownlow Education, you can now order online and pay using that account.

Order Form

09-009-01

QTY	CODE	TITLE	PRICE
	NST4384	A Head Start on Science	$45.95
	SHP7798	Becoming Scientists, Grades 3-5	$35.95
	NST0805	Brain-Powered Science	$37.95
	SHP7972	Caring Hearts & Critical Minds	$39.95
	NST0843	Even More Brain-Powered Science	$37.95
	NST0850	Everyday Earth and Space Science Mysteries	$29.95
	NST0874	Everyday Physical Science Mysteries	$29.95
	IST7491	Flipped Learning for Science Instruction	$19.95
	NST0898	How to . . . Ask the Right Questions	$9.95
	HB6177	Independent Science Challenges	$29.95
	HB1533	Inquire: A Guide to 21st Century Learning	$69.95
	eHB1533	Inquire: A Guide to 21st Century Learning (eBook)	$11.95
	HB9980	Inquire: A Guide to 21st Century Learning, Teacher's Guide	$21.95
	HB9052	Inquiry Science P-2	$19.95
	GLA1338	Inside the Black Box: Science	$10.95
	NST9327	Learning and Teaching Scientific Inquiry	$45.95
	HB6541	Lift Off To Learning + CD	$55.00
	NST4469	Mixing It Up	$19.95
	NST0935	More Brain-Powered Science	$37.95
	NST0942	Predict, Observe, Explain	$39.95
	IST5398	Reinventing Project-Based Learning, 2nd Edition	$59.95
	PRU9358	Science Dictionary for Kids	$29.95
	114017	Setting the Standard for Project Based Learning	$39.95
	NST4377	Inquiring Scientists, Inquiring Readers, Years 3-5	$55.95
	TCP1670	Teaching as Inquiry	$27.95
	TCP6234	Teaching in Themes	$49.95
	NST9068	The Power of Questioning	$29.95
	IFA19132	Think & Discover Science	$24.95
	SHP7781	To Look Closely	$35.95
	NST9129	Using Physical Science Gadgets & Gizmos, Grades 3-5	$45.95
	NST9228	What Are They Thinking?	$55.95
	TCP8894	Whole School Projects	$45.95
	NST9297	Whole-Class Inquiry	$59.95

TOTAL (plus freight) $

Attention ..... Order Number .....
Name of School .....
Address .....
..... State .....P/Code .....
Country .....
Email: .....

☐ Yes I would like to receive email communications about products and offerings from Hawker Brownlow Education. I understand that I can unsubscribe at any time.

INVOICE
❍ Please invoice school/institution (official purchase order must be supplied)
Purchase order number: _____

CREDIT CARD
❍ School/organisation credit card ❍ Personal credit card
❍ Visa ❍ Mastercard ❍ Amex (4% surcharge)
Card number: ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐
Amount: $ _____ Expiry date: ____ CVV: ____
Signature: _____

CHEQUE
❍ Cheque – Make cheque payable to Hawker Brownlow Education

TO CONTACT OUR SALES REP

VIC contact reception on 03 8558 2444 or reception@hbe.com.au
QLD contact Karen Hofmann on 0439 889 190 or qld1@hbe.com.au

P.O. Box 580, Moorabbin, Victoria 3189, Australia
Phone: +61 3 8558 2444 • Fax: +61 3 8558 2400
Website: www.hbe.com.au • Email: orders@hbe.com.au • ABN: 77 093 854 892

Hawker Brownlow EDUCATION