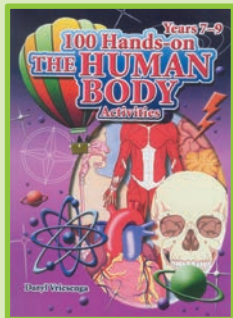


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Hands-On Activities

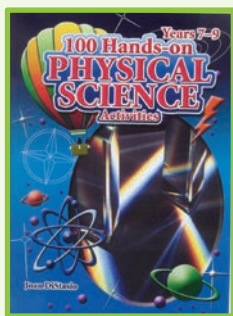


100 Hands-on Activities: **THE HUMAN BODY Years 5-8**

David Wiley • 9781740253031

The Human Body covers over 100 activities for students to learn about their bodies. The body is a fascinating organism and students will love learning about all the different parts and function. Included in these activity sheets are: your body systems, your bones, Muscle Man, breathe in and out, how a pimple develops, the reproductive system, inside your head, food and nutrition, your inner ear, all of your senses and eyes and how they are used.

IFA8754 • \$35.95

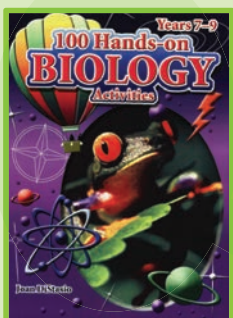


100 Hands-on Activities: **PHYSICAL SCIENCE Years 7-9**

Joan DiStasio • 9781740257237

Physical Science is a valuable teaching resource for introducing chemistry and physics to middle years students. The activities that are covered in this book are graphing, motion, machines the periodic table, formulas and equations, light, electricity and much more. The author of this book is a high school Science teacher with a Master's degree in Chemistry, she also brings a wealth of experience from the chemistry industry.

IFA8767 • \$35.95

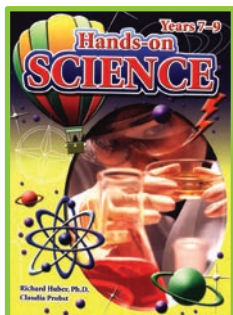


100 Hands-on Activities: **BIOLOGY, Years 7-9**

Joan DiStasio • 9781740257220

Supplement your life sciences lessons with the informative worksheets in Biology. Topics covered include chemical elements and change, cellular and microscopic life, small animal anatomy, the anatomy of a plant, human anatomy and more. Students will learn about these intriguing topics while completing diagrams, crosswords, fill-in-the blank activities and quizzes. A complete answer key is included.

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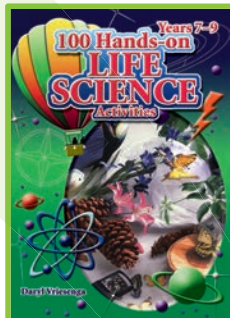


HANDS-ON SCIENCE Years 7-9

Richard Huber, Claudia Probst • 9781740253727

Hands On Science is organised around five important process skills, and can be used by teachers to develop a particular process skill e.g. Making models. Although we have included activities that are simple to perform, understanding them fully will push your students to grasp what is happening on a molecular level. Most of the activities are short and can be completed in one class lesson, most of the supplies that are used are inexpensive and readily available in store rooms and supermarkets.

IFA8510 • \$35.95

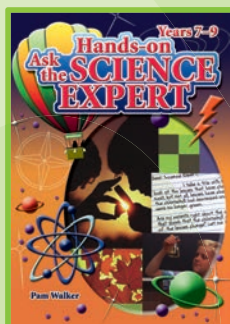


100 Hands-on Activities: **LIFE SCIENCE Years 7-9**

Daryl Vriesenga • 9781740257206

Bring deeper understanding and enjoyment to your science/biology classroom through the use of Life Science. The true-to-life drawings and wide variety of topics including systems, cycles and kingdoms of living things serve as excellent supplements to your already rich curriculum. This is an ideal resource for a comprehensive life science curriculum.

IFA8756 • \$35.95



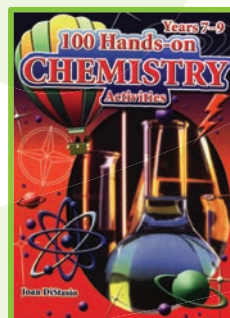
100 Hands-on Activities: **ASK THE SCIENCE EXPERT Years 7-9**

Pam Walker • 9781740257190

The unique format found in Ask the Science Expert turns the students themselves into the "expert" as they respond to the advice column-type questions introducing each science problem. Important background information plus pertinent pre lab questions lead students to the necessary data on their own. Once the experiment is complete, students answer original questions in advice column-type response. Scientific problem

solving and research skills are enhanced while writing skills are improved through the response required for concluding the experiment.

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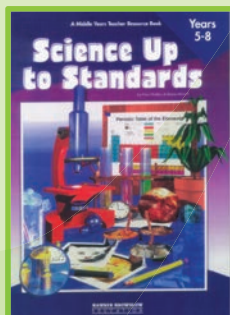


100 Hands-on Activities: **CHEMISTRY Years 7-9**

Joan DiStasio • 9781740257213

A must for any teacher with a "can do" approach to teaching Chemistry. The book includes pages of problems and puzzles on the mole, balancing equations, gas laws, stoichiometry, the periodic table and more. The lessons can be tailored to any level.

IFA8766 • \$35.95

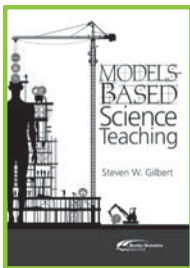


Science Up To Standards

Elaine Wood • 9781740251334

This book is designed for middle years students to improve their problem-solving and creative-thinking skills by performing experiments and developing strategies to find answers. Loaded with activities that conform to national science standards, this great resource provides activities in seven content areas: Science as Inquiry, Physical Science, Life Science, Earth and Space Science, Science and Technology, Science in Personal and Social Perspectives, and the History and Nature of Science.

IFA2567 • \$39.95



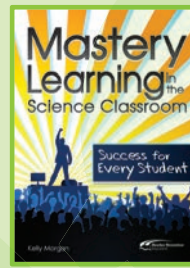
MODELS-BASED SCIENCE TEACHING

Steven Gilbert • 9781760010928

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 this book, 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. Rather than advocating a rigid curriculum, Gilbert asserts that models-based science teaching embraces the creativity inherent in science and in learning.

NST0928 • \$32.95



MASTERY LEARNING IN THE SCIENCE CLASSROOM

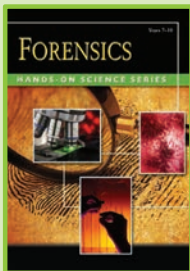
Kelly Morgan • 9781760010911

In these pages, Kelly Morgan presents a compelling case for implementing a mastery learning science classroom and then shows us how to do it. Using research-based student performance data, Morgan compiles impressive statistics that support her assertion that 'mastery learning results in improved student learning and motivation'. This book shows educators how to

move step-by-step from a traditional classroom to a mastery classroom and describes the challenges and benefits of such an implementation. The book also provides sample worksheets, checklists, a teacher marking grid and helpful additional resources.

NST0911 • \$19.95

HANDS - ON SCIENCE SERIES



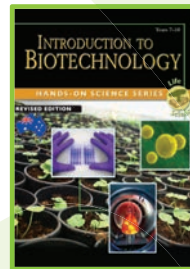
FORENSICS

Brian Pressley • 9781742398242

Engage your students in science with these 20 exciting experiments! Like the characters in popular TV shows, students will conduct experiments to determine exactly who did what - and how. This book contains twenty lessons, which each include teacher notes, material and vocabulary lists, and assessments. Each lesson is an experiment designed to help students understand applications in science using chemical, biological and photographic means. Throughout this book,

students study blood pattern analysis, glass fracture patterns, shoe and finger prints, microscopic fibres, DNA and more, to draw logical conclusions about 'crime' scenarios.

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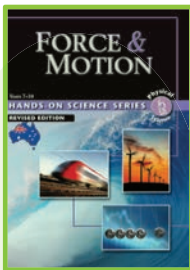
INTRODUCTION TO BIOTECHNOLOGY

Brian Pressley • 9781742398259

With Hands-On Science: Introduction to Biotechnology, your students can become familiar with the basic concepts, techniques and issues surrounding science today. This book contains twenty lessons, which each include teacher notes, material and vocabulary lists, and assessments. Each lesson is an experiment designed to help students understand biotechnology's applications

in agriculture, environmental protection, medicine and manufacturing. Throughout the book, students will explore how biotechnology is as venerable a process as the making of bread, and as new a technique as extracting DNA from living tissue, or cloning living organisms. They'll also investigate bioethics and examine possible careers in the field.

WAL8259 • \$32.95



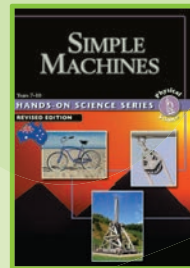
FORCE & MOTION

Steven Souza, Karen Kwitter • 9781742398570

With Hands on Science: Force and Motion, you will teach your students about the important physical science concepts encompassing force and motion: force, work, power, friction, momentum, gravity, Newton's Laws and more. Students will conduct experiments to investigate different types of energy, and other forces which may act affect an objects movement, such as pressure, centre of mass, and acceleration and velocity. This book

contains twenty lessons, which each include teacher notes, material and vocabulary lists and assessments. Each lesson is an experiment designed to help students understand applications in science. Experiments include Pressure is Not the Same As Force, Friction and Centre of Mass.

WAL8570 • \$29.95



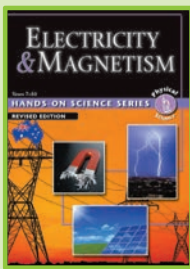
SIMPLE MACHINES

Steven Souza, Karen Kwitter • 9781742398587

Students will investigate the concepts of force, work, power, efficiency and mechanical advantage. They will experience how simple machines, such as ramps, wedges, levers, pulleys and gears, operate. Engage their minds as they observe, investigate and examine the wonders of simple machines with these hands-on lessons! Simple Machines provides low-cost activities that increase conceptual understanding. With this

resource, you get 17 hands-on activities in which students manipulate equipment, interpret data, evaluate experimental design and apply scientific methods and rich, engaging projects that correlate with Australian Curriculum: Science content descriptions for Years 7-10.

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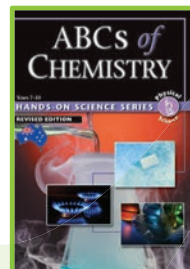
ELECTRICITY & MAGNETISM

Steven Souza, Karen Kwitter • 9781742398563

With Hands on Science: Electricity and Magnetism, you will teach your students about the important physical science concepts surrounding electricity and magnetism. Students will conduct experiments to investigate what happens in different electrical circuits. This book contains fifteen lessons, which include teacher notes, material and vocabulary lists and assessments. Each lesson is an experiment designed to help

students understand applications in science. Experiments include Fuses, Circuit Breakers and Heat; Generating Static Electricity; and Producing Electricity from Electrochemical Cells. This book can be used as a complete introductory program, a science unit or as a fun enrichment experience for students.

WAL8563 • \$29.95



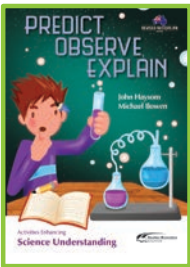
ABCs OF CHEMISTRY

Steven Souza, Karen Kwitter • 9781742398556

In this book you will teach your students about the important physical science concepts surrounding chemistry: types of matter, separating parts of a mixture and chemical reactions. Students will conduct experiments to investigate the results of different chemical reactions. This book contains seventeen lessons, which each include teacher notes, material and vocabulary lists and assessments. Each lesson is an experiment

designed to help students understand applications in science. Experiments include How Can We Separate the Parts of a Mixture?, Are There Indicators in Nature? and Gases of Burning. This book can be used as a complete introductory program, a science unit or as a fun enrichment experience for students.

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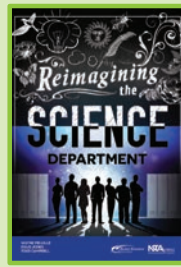
PREDICT, OBSERVE, EXPLAIN

John Haysom, Michael Bowen • 9781760010942

Predict, Observe, Explain 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.

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REIMAGINING THE SCIENCE DEPARTMENT

Wayne Melville, Doug Jones, Todd Campbell • 9781760019037

If you want your science teachers to have the freedom and capacity to truly make their teaching more effective, Reimagining the Science Department is the book for you. It provides both the context and counsel to help you change the departmental factors that don't support teaching and learning. If you are already a department

chair or aspire to become one, this book will help you understand the importance of the position and develop your ability to lead.

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SURVIVAL SERIES



SURVIVAL: AMAZON MISSION, YEARS 7-9

Peter Wong, Barbara Brizuela • 9781742398334

In Survival: Amazon Mission, students are required to complete three challenges relating to survival in the Amazon: delivering temperature controlled life-saving malaria medicine to a remote village, designing a water-filtration system to filter mercury out of the water, and come up with a way to prevent the spread of a new strain of the influenza virus to the Yanomami people. To solve each of these problems, students will need to do a combination of the following: apply the engineering design process; interpret line graphs; conduct controlled experiments, record and display data in a table; draw and relate graphs that have two variables; use physical and maths models; work in teams; and much more. This book provides rubrics for each step of the Engineering Design Process, as well as Student Self-Assessment Rubrics and student work samples.

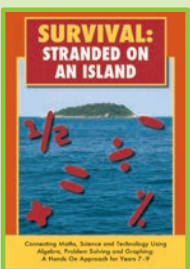
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SURVIVAL: CLIMBING MOUNT EVEREST, YEARS 7-9

Peter Wong, Barbara Brizuela • 9781742398327

In Survival: Climbing Mount Everest, students are required to complete three challenges relating to survival on the mountain: designing a coat to protect them from hypothermia, designing a bridge that will enable them to safely cross a crevasse, and designing a device that will transport altitude-sick students down the mountain. To solve each of these problems, students will need to do a combination of the following: apply the engineering design process; interpret line graphs; conduct controlled experiments, record and display data in a table; draw and relate graphs that have two variables; use physical and maths models; work in teams; and much more. This book provides rubrics for each step of the Engineering Design Process, as well as Student Self-Assessment Rubrics and student work samples.

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SURVIVAL: STRANDED ON AN ISLAND, YEARS 7-9

Peter Wong, Barbara Brizuela • 9781742398310

In Survival: Stranded on an Island, students are required to complete three challenges relating to survival on a deserted Island: designing a shelter for protection from a thunderstorm, designing an effective rainwater collector so that they have water to drink, and designing a loading plan to ensure that their rescue canoes do not tip over. To solve each of these problems, students will need to do a combination of the following: apply the engineering design process; interpret line graphs; conduct controlled experiments, record and display data in a table; draw and relate graphs that have two variables; use physical and maths models; work in teams; and much more. This book provides rubrics for each step of the Engineering Design Process, as well as Student Self-Assessment Rubrics and student work samples.

WAL8310 • \$39.95



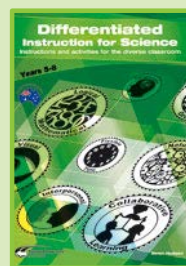
EXPEDITIONS IN YOUR CLASSROOM: SCIENCE, Middle Years

Henrietta List • 9781742398549

Engage students by providing the opportunity to explore and apply important concepts and rules from subject areas to real-life situations. This Expeditions book contains projects designed to leave a lasting mark. Students address situations involving real people, with themes that appeal to secondary school students. Projects include: examining the hazards created by an oil spill on

water and designing a technique to counter the effects, investigating plant structure and soil chemistry; testing soils to determine the best soils for planting, investigating the components of a healthy lifestyle including vital signs and many more...

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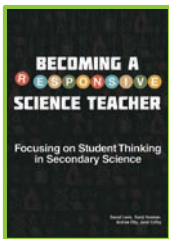
DIFFERENTIATED INSTRUCTION FOR SCIENCE, 5-8

Dawn Hudson • 9781742399539

Use Differentiated Instruction for Science to meet the diverse learning needs of your students. Differentiated Instruction for Science contains activities that will engage students of varying ability levels, learning styles and areas of interest. The activities have been developed to incorporate important learning concepts into activities that secondary school students will find interesting and

relevant. Differentiation strategies within this series apply knowledge of Gardner's multiple intelligences, and include student-centred activities, varying approaches to assessment, flexible grouping options and flexible time to complete projects according to students levels and needs.

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BECOMING A RESPONSIVE SCIENCE TEACHER

Daniel Levin, David Hammer, Andrew Elby, Janet Coffey • 9781760010799

A philosophical framework for understanding the beginnings of scientific thinking in high school students; five real-life case studies and accompanying transcripts-available as downloadable resources; suggestions for how to use the case studies to practice recognising, interpreting,

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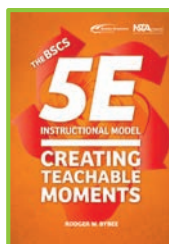
DOING GOOD SCIENCE IN MIDDLE SCHOOL, EXPANDED 2ND EDITION

Jackie Cleveland, Vicki Massey, Rick Vanosdall, Olaf Jorgenson • 9781760019273

This lively book contains the kind of guidance that could only come from veterans of the middle years science trenches. The authors know you're crazy-busy, so they made the book easy to use, whether you want to read it cover to cover or pick out sections to help you with lesson planning and classroom management. They also know you face new challenges, so they thoroughly revised this second edition to meet the needs of today's students. If you're a new teacher, you'll gain a solid foundation in how to teach science and engineering practices while better understanding your often-enigmatic middle years students.

and responding to the vital nuances of your own students' thinking in real time; and advice on next steps, including how to overcome systemic impediments and maintain your focus on student thinking.

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THE BSCS 5E INSTRUCTIONAL MODEL: Creating Teachable Moments

Rodger Bybee • 9781760019044

With this book, you can stop wishing you could engage your students more fully and start engaging. Magic moments no longer have to be random. Much of this book is devoted to an in-depth explanation of how to put the model to work in the classroom, but the book also explores the historical idea of what can be considered instructional models and education research that supports such models; and explains how to connect the model to the Next Generation Science Standards, STEM education, 21st-century skills and implementation in your classroom.

and responding to the vital nuances of your own students' thinking in real time; and advice on next steps, including how to overcome systemic impediments and maintain your focus on student thinking.

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INTEGRATING ENGINEERING AND SCIENCE IN YOUR CLASSROOM

Eric Brunzell • 9781760010904

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and responding to the vital nuances of your own students' thinking in real time; and advice on next steps, including how to overcome systemic impediments and maintain your focus on student thinking.

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