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Emerging Research in Computing, Information, Communication and Applications Dec 18 2021 This book presents the proceedings of International Conference on Emerging Research in Computing, Information, Communication and Applications, ERCICA 2016. ERCICA provides an interdisciplinary forum for researchers, professional engineers and scientists, educators, and technologists to discuss, debate and promote research and technology in the upcoming areas of computing, information, communication and their applications. The book discusses these emerging research areas, providing a valuable resource for researchers and practicing engineers alike.

Computational Collective Intelligence Dec 06 2020 This two-volume set (LNAI 9329 and LNAI 9330) constitutes the refereed proceedings of the 7th International Conference on Collective Intelligence, ICCCI 2014, held in Madrid, Spain, in September 2015. The 110

full papers presented were carefully reviewed and selected from 186 submissions. They are organized in topical sections such as multi-agent systems; social networks and NLP; sentiment analysis; computational intelligence and games; ontologies and information extraction; formal methods and simulation; neural networks, SMT and MIS; collective intelligence in Web systems – Web systems analysis; computational swarm intelligence; cooperative strategies for decision making and optimization; advanced networking and security technologies; IT in biomedicine; collective computational intelligence in educational context; science intelligence and data analysis; computational intelligence in financial markets; ensemble learning; big data mining and searching.

The SAGE Encyclopedia of Educational Research, Measurement, and Evaluation Aug 22 2019 This encyclopedia is the first major reference guide for students new to the field, covering traditional areas while pointing the way to future developments.

Multimedia Services in Intelligent Environments Mar 29 2020 KES International (KES) is a worldwide organisation that provides a professional community and association for researchers, originally in the discipline of Knowledge Based and Intelligent Engineering Systems, but now extending into other related areas. Through this, KES provides its members with opportunities for publication and beneficial interaction. The focus of KES is research and technology transfer in the area of Intelligent Systems, i.e. computer-based software systems that operate in a manner analogous to the human brain, in order to perform

advanced tasks. Recently KES has started to extend its area of interest to encompass the contribution that intelligent systems can make to sustainability and renewable energy, and also the knowledge transfer, innovation and enterprise agenda. Involving several thousand researchers, managers and engineers drawn from universities and companies world-wide, KES is in an excellent position to facilitate international research co-operation and generate synergy in the area of artificial intelligence applied to real-world 'Smart' systems and the underlying related theory. The KES annual conference covers a broad spectrum of intelligent systems topics and attracts several hundred delegates from a range of countries round the world. KES also organises symposia on specific technical topics, for example, Agent and Multi Agent Systems, Intelligent Decision Technologies, Intelligent Interactive Multimedia Systems and Services, Sustainability in Energy and Buildings and Innovations through Knowledge Transfer. KES is responsible for two peer-reviewed journals, the International Journal of Knowledge based and Intelligent Engineering Systems, and Intelligent Decision Technologies: an International Journal.

Visualizing Social Science Research Jan 07 2021 This introductory text presents basic principles of social science research through maps, graphs, and diagrams. The authors show how concept maps and mind maps can be used in quantitative, qualitative, and mixed methods research, using student-friendly examples and classroom-based activities. Integrating theory and practice, chapters show how to use these tools to plan research

projects, “see” analysis strategies, and assist in the development and writing of research reports.

Study Guide for Pathophysiology Apr 10 2021 This student workbook is designed to accompany Braun and Anderson's Pathophysiology: Functional Alterations in Human Health. The workbook contains additional case studies and questions, test-taking strategies, quiz questions, and exercises involving concept mapping.

A-level Chemistry Apr 22 2022 Each topic is treated from the beginning, without assuming prior knowledge. Each chapter starts with an opening section covering an application. These help students to understand the relevance of the topic: they are motivational and they make the text more accessible to the majority of students. Concept Maps have been added, which together with Summaries throughout, aid understanding of main ideas and connections between topics. Margin points highlight key points, making the text more accessible for learning and revision. Checkpoints in each chapter test students' understanding and support their private study. A selection of questions are included at the end of each chapter, many form past examination papers. Suggested answers are provided in the Answers Key.

Chemical Misconceptions Nov 05 2020 Part 1 deals with the theory of misconceptions, by including information on some of the key alternative conceptions that have been uncovered by research.

Artificial Intelligence in Education Feb 20 2022 This two-volume set LNCS 11625 and

11626 constitutes the refereed proceedings of the 20th International Conference on Artificial Intelligence in Education, AIED 2019, held in Chicago, IL, USA, in June 2019. The 45 full papers presented together with 41 short, 10 doctoral consortium, 6 industry, and 10 workshop papers were carefully reviewed and selected from 177 submissions. AIED 2019 solicits empirical and theoretical papers particularly in the following lines of research and application: Intelligent and interactive technologies in an educational context; Modelling and representation; Models of teaching and learning; Learning contexts and informal learning; Evaluation; Innovative applications; Intelligent techniques to support disadvantaged schools and students, inequity and inequality in education.?

Journal Keeping Feb 26 2020 ** By the authors of the acclaimed Introduction to Rubrics
** Major growth of interest in keeping journals or diaries for personal reflection and growth; and as a teaching tool ** Will appeal to college faculty, administrators and teachers
One of the most powerful ways to learn, reflect and make sense of our lives is through journal keeping. This book presents the potential uses and benefits of journals for personal and professional development—particularly for those in academic life; and demonstrates journals’ potential to foster college students’ learning, fluency and voice, and creative thinking. In professional life, a journal helps to organize, prioritize and address the many expectations of a faculty member’s or administrator’s roles. Journals are effective for developing time management skills, building problem-solving skills, fostering insight, and

decreasing stress. Both writing and rereading journal entries allow the journal keeper to document thinking; to track changes and review observations; and to examine assumptions and so gain fresh perspectives and insights over past events. The authors present the background to help readers make an informed decision about the value of journals and to determine whether journals will fit appropriately with their teaching objectives or help manage their personal and professional lives. They offer insights and advice on selecting the format or formats and techniques most appropriate for the reader's purposes.

Handbook of Research on Collaborative Learning Using Concept Mapping Nov 29 2022

This new encyclopedia discusses the extraordinary importance of internet technologies, with a particular focus on the Web.

The Construction of Concept Maps Facilitates the Learning of General College Chemistry
Aug 14 2021

Design and Measurement Strategies for Meaningful Learning Nov 17 2021 Teaching content and measuring content are frequently considered separate entities when designing teaching instruction. This can create a disconnect between how students are taught and how well they succeed when it comes time for assessment. To heal this rift, the theory of meaningful learning is a potential solution for designing effective teaching-learning and assessment materials. **Design and Measurement Strategies for Meaningful Learning** considers the best practices, challenges, and opportunities of instructional design as well as

the theory and impact of meaningful learning. It provides educators with an essential text instructing them on how to successfully design and measure the content they teach. Covering a wide range of topics such as blended learning, online interaction, and learning assessment, this reference work is ideal for teachers, instructional designers, curriculum developers, policymakers, administrators, academicians, researchers, practitioners, and students.

The Essential Guide to Becoming a Master Student Sep 22 2019 THE ESSENTIAL GUIDE TO BECOMING A MASTER STUDENT, 5th Edition, was written with you in mind. Beginning with an introduction to higher education, you will learn about Master Student Qualities -- the attitudes and behaviors that lead to success in the classroom and beyond. Tools such as the Discovery Wheel, the Discovery/Intention Journal Entries, Power Process articles, and the Kolb Learning Style Inventory guide you through self-assessment and discovery, creating a foundation from which to build solid strategies for academic growth. This brief text invites you to put new ideas into action immediately and select additional strategies as you plan for your future. The fifth edition includes a new chapter focused on information literacy to help you navigate the constant streams of information you face every day. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Artificial Intelligence in Education Jan 19 2022 This book constitutes the refereed

proceedings of the 17th International Conference on Artificial Intelligence in Education, AIED 2015, held in Madrid, Spain, in June 2015. The 50 revised full papers presented together with 3 keynotes, 79 poster presentations, 13 doctoral consortium papers, 16 workshop abstracts, and 8 interactive event papers were carefully reviewed and selected from numerous submissions. The conference provides opportunities for the cross-fertilization of approaches, techniques and ideas from the many fields that comprise AIED, including computer science, cognitive and learning sciences, education, game design, psychology, sociology, linguistics, as well as many domain-specific areas.

Virtual Technologies: Concepts, Methodologies, Tools, and Applications Sep 03 2020 "This publication presents encompassing research of the concepts and realities involved in the field of virtual communities and technologies"--Provided by publisher.

Concept Mapping as an Assessment Tool for Conceptual Understanding in

Mathematics May 23 2022 This book investigates the practicability and effectiveness of the concept map as a tool for assessing students' conceptual understanding in mathematics. The author first introduces concept mapping and then employs it to investigate students' conceptual understanding of four different mathematical topics. Alongside traditional scoring methods, she adopts Social Network Analysis, a new technique, to interpret student-constructed concept maps, which revealed fresh insights into the graphic features of the concept map and into how students connect mathematical concepts. By comparing two

traditional school tests with the concept map, she examines its concurrent validity and discusses its strengths and drawbacks from the viewpoint of assessing conceptual understanding. With self-designed questionnaires, interviews, and open-ended writing tasks, she also investigates students and teachers' attitudes toward concept mapping and describes the implications these findings may have for concept mapping's use in school and for further research on the topic. Scholars and postgraduate students of mathematics education and teachers interested in concept mapping or assessing conceptual understanding in classroom settings will find this book an informative, inspiring, and overall valuable addition to their libraries.

General, Organic, and Biochemistry Study Guide Sep 27 2022 "This study guide provides reader-friendly reinforcement of the concepts covered in the textbook. Features include : Chapter outlines ; "Are you able to ...?" ; Worked text problems ; Fill-ins ; Test yourself ; Concept maps. Can also be used for Blei and Odian's Organic and Biochemistry".

Science Teaching Essentials Aug 02 2020 Science Teaching Essentials: Short Guides to Good Practice serves as a reference manual for science faculty as they set up a new course, consider how to teach the course, figure out how to assess their students fairly and efficiently, and review and revise course materials. This book consists of a series of short chapters that instructors can use as resources to address common teaching problems and adopt evidence-based pedagogies. By providing individual chapters that can be used

independently as needed, this book provides faculty with a just-in-time teaching resource they can use to draft a new syllabus. This is a must-have resource for science, health science and engineering faculty, as well as graduate students and post-docs preparing for future faculty careers. Provides easily digested, practical, research-based information on how to teach Allows faculty to efficiently get up-to-speed on a given pedagogy or assessment method Addresses the full range of faculty experiences as they being to teach for the first time or want to reinvent how they teach

Concept Mapping in Mathematics Aug 26 2022 Concept Mapping in Mathematics:

Research into Practice is the first comprehensive book on concept mapping in mathematics. It provides the reader with an understanding of how the meta-cognitive tool, namely, hierarchical concept maps, and the process of concept mapping can be used innovatively and strategically to improve planning, teaching, learning, and assessment at different educational levels. This collection of research articles examines the usefulness of concept maps in the educational setting, with applications and examples ranging from primary grade classrooms through secondary mathematics to pre-service teacher education, undergraduate mathematics and post-graduate mathematics education. A second meta-cognitive tool, called vee diagrams, is also critically examined by two authors, particularly its value in improving mathematical problem solving. Thematically, the book flows from a historical development overview of concept mapping in the sciences to applications of concept

mapping in mathematics by teachers and pre-service teachers as a means of analyzing mathematics topics, planning for instruction and designing assessment tasks including applications by school and university students as learning and review tools. This book provides case studies and resources that have been field tested with school and university students alike. The findings presented have implications for enriching mathematics learning and making problem solving more accessible and meaningful for students. The theoretical underpinnings of concept mapping and of the studies in the book include Ausubel's cognitive theory of meaningful learning, constructivist and Vygotskian psychology to name a few. There is evidence particularly from international studies such as PISA and TIMSS and mathematics education research, which suggest that students' mathematical literacy and problem solving skills can be enhanced through students collaborating and interacting as they work, discuss and communicate mathematically. This book proposes the meta-cognitive strategy of concept mapping as one viable means of promoting, communicating and explicating students' mathematical thinking and reasoning publicly in a social setting (e.g., mathematics classrooms) as they engage in mathematical dialogues and discussions. *Concept Mapping in Mathematics: Research into Practice* is of interest to researchers, graduate students, teacher educators and professionals in mathematics education.

Universal Methods of Design Expanded and Revised Mar 09 2021 This expanded and revised version of the best-selling *Universal Methods of Design* is a comprehensive

reference that provides a thorough and critical presentation of 125 research methods, synthesis/analysis techniques, and research deliverables for human-centered design. The text and accompanying photos and graphics of this classic resource are delivered in a concise and accessible format perfect for designers, educators, and students. Information can be easily referenced and utilized by cross-disciplinary teams in nearly any design project. This new, expanded edition includes updated information on scenarios, secondary research, territory maps, and other chapters. The addition of 25 new chapters brings fresh relevance to the text with innovative design methods that have emerged since the first edition, such as backcasting, behavioral design, horizon scanning, and transition design. Universal Methods of Design distills each method down to its essence, in a format that helps design teams select and implement the most credible research methods suited to their design culture.

Science Sifting May 31 2020 Science Sifting is designed primarily as a textbook for students interested in research and as a general reference book for existing career scientists. The aim of this book is to help budding scientists broaden their capacities to access and use information from diverse sources to the benefit of their research careers. The book describes why the capacity to access and integrate both linear and nonlinear information has been an important historic feature of pivotal scientific breakthroughs. Yet, it is a process that our students are rarely, if ever, taught in universities. This book goes beyond simply describing

the features of great scientific breakthroughs. It discusses the basis for accessing and using nonlinear information in the linear research context. It also provides a series of tools and exercises that can be used to enhance access to nonlinear information for application to research and other endeavors. Topics covered include focal points in scientific breakthroughs, the use of concepts maps in research, use of different vantage points, information as patterns, fractals for the scientist, memory storage and access points, and synchronicities. Young researchers need useful tools to help with a more holistic approach to their research careers. This book provides the useful tools to support flexibility and creativity across a long-term research career.

Applied Concept Mapping Mar 21 2022 The expanding application of Concept Mapping includes its role in knowledge elicitation, institutional memory preservation, and ideation. With the advent of the CmapTools knowledge modeling software kit, Concept Mapping is being applied with increased frequency and success to address a variety of problems in the workplace. Supported by business application case studies, Applied Concept Mapping: Capturing, Analyzing, and Organizing Knowledge offers an accessible introduction to the theory, methods, and application of Concept Mapping in business and government. The case studies illustrate applications across a range of industries—including engineering, product development, defense, and healthcare. The authors provide access to a free download of CmapTools, courtesy of the Institute for Human and Machine Cognition, to

enable readers to create and share their own Concept Maps. Offering examples from the United States, Canada, Australia, Spain, Brazil, Scotland, and The Netherlands, they highlight a global perspective of this dynamic tool. The text is organized into three sections: Practitioners' Views—supplies narratives, guidance, and reviews of applications from career Concept Mappers Recent Case Studies and Results—presents in-depth examinations of specific applications and their results Pushing the Boundaries—explores what's possible and where the boundary conditions lie Applied Concept Mapping facilitates the fundamental understanding needed to harness the power of Concept Mapping to develop viable solutions to a virtually unlimited number of real-world problems.

Advanced Concepts, Methods, and Applications in Semantic Computing Oct 16 2021

Semantic computing is critical for the development of semantic systems and applications that must utilize semantic analysis, semantic description, semantic interfaces, and semantic integration of data and services to deliver their objectives. Semantic computing has enormous capabilities to enhance the efficiency and throughput of systems that are based on key emerging concepts and technologies such as semantic web, internet of things, blockchain technology, and knowledge graphs. Thus, research that expounds advanced concepts, methods, technologies, and applications of semantic computing for solving challenges in real-world domains is vital. Advanced Concepts, Methods, and Applications in Semantic Computing is a scholarly reference book that provides a sound theoretical

foundation for the application of semantic methods, concepts, and technologies for practical problem solving. It is designed as a comprehensive and reliable resource on how semantic-oriented approaches can be used to aid new emergent technologies and tackle real-world problems. Covering topics that include deep learning, machine learning, blockchain technology, and semantic web services, this book is ideal for professionals, academicians, researchers, and students working in the field of semantic computing in various disciplines, including but not limited to software engineering, systems engineering, knowledge engineering, electronic commerce, computer science, and information technology.

Intelligent Interactive Multimedia Systems and Services May 11 2021 At a time when computers are more widespread than ever, intelligent interactive systems have become a necessity. The term ‘multimedia systems’ refers to the coordinated storage, processing, transmission and retrieval of multiple forms of information, such as audio, image, video, animation, graphics and text. The growth of multimedia services has been exponential, as technological progress keeps up with the consumer’s need for content. The solution of ‘one fits all’ is no longer appropriate for the wide ranges of users with various backgrounds and needs, so one important goal of many intelligent interactive systems is dynamic personalization and adaptivity to users. This book presents 37 papers summarizing the work and new research results presented at the 6th International Conference on Intelligent Interactive Multimedia Systems and Services (KES-IIMSS2013), held in Sesimbra,

Portugal, in June 2013. The conference series focuses on research in the fields of intelligent interactive multimedia systems and services and provides an internationally respected forum for scientific research in related technologies and applications.

Reading Comprehension Nov 24 2019 *Reading Comprehension: Assisting Children with Learning Difficulties* examines the complex nature of reading comprehension. It introduces a model for classifying reading comprehension based on an expanded Simple View of Reading. Issues related to assessment, diagnosis, and remediation of reading comprehension difficulties are discussed and translated into clear recommendations to inform reading intervention design and practice. It gives an informed understanding as to why reading comprehension is difficult for some children with learning disabilities such as ADHD, autism, language difficulties and dyslexia. From leading literacy research, the book develops a deeper understanding of thinking processes that facilitate comprehension at the word, discourse, and metacognitive levels. Children will benefit from the introduction of evidence-based methods for teaching reading comprehension using structured multiple-strategy frameworks.

The Cambridge Handbook of Multimedia Learning Apr 29 2020 This 2005 book constitutes comprehensive coverage of research and theory in the field of multimedia learning.

Introduction to Concept Mapping in Nursing Jul 25 2022 Introduction to Concept

Mapping in Nursing provides the foundation for what a concept map is and how to create a map that applies theory to practice. This excellent resource addresses how students will think about applying nursing theory as it relates to concept mapping. This book is unique because it focuses on a broad application of concept mapping, and ties concept mapping closely to critical thinking skills. Furthermore, this book will prepare nursing students to learn how to map out care plans for patients as they talk with patients. **Key Features & Benefits*** Demonstrates how students can think through every aspect of care by using compare and contrast tactics, critical thinking skills, and experiences a nursing student may encounter * Includes thought-provoking questions to guide the reader through the text * Provides a section on nursing theory complete with exercises and rationales that include concept maps so that students can understand how theory is applied to practice* Written for students with various learning styles, so a broad range of learning activities are included to help readers understand the material

Helping People Learn Oct 24 2019 A science of education based on cognitive psychology and constructivist epistemology to aid development of successful educational programs.

Innovating with Concept Mapping Jun 24 2022 This book constitutes the refereed proceedings of the 7th International Conference on Concept Mapping, CMC 2016, held in Tallinn, Estonia, in September 2016. The 25 revised full papers presented were carefully reviewed and selected from 135 submissions. The papers address issues such as facilitation

of learning; eliciting, capturing, archiving, and using “expert” knowledge; planning instruction; assessment of “deep” understandings; research planning; collaborative knowledge modeling; creation of “knowledge portfolios”; curriculum design; eLearning, and administrative and strategic planning and monitoring.

Wiley Handbook of Science and Technology for Homeland Security, 4 Volume Set Jul 01 2020 The Wiley Handbook of Science and Technology for Homeland Security is an essential and timely collection of resources designed to support the effective communication of homeland security research across all disciplines and institutional boundaries. Truly a unique work this 4 volume set focuses on the science behind safety, security, and recovery from both man-made and natural disasters has a broad scope and international focus. The Handbook: Educates researchers in the critical needs of the homeland security and intelligence communities and the potential contributions of their own disciplines Emphasizes the role of fundamental science in creating novel technological solutions Details the international dimensions of homeland security and counterterrorism research Provides guidance on technology diffusion from the laboratory to the field Supports cross-disciplinary dialogue in this field between operational, R&D and consumer communities

Freedom to Teach and Learn Literature Feb 08 2021 This book is based on the author's practice in teaching and learning literature. It approaches this subject as a privileged context

for critical thinking, knowledge construction, and autonomy both for teachers and learners. It emphasizes practice though linking it with theory. Readers will find many examples to clarify explanations. It presents concept mapping as a powerful tool to facilitate one's expression of thinking+feeling+acting when experiencing a literary text. The book offers the opportunity of a hands-on participation in working with concept maps and of interacting with the author through email, if the reader feels like doing it. The aim here is to suggest ways to achieve a context of freedom and autonomy in literature classes as well as to encourage more readers to love reading and literature.

Concept Mapping for Planning and Evaluation Jun 12 2021 This is a complete guide to the concept mapping methodology and strategies behind using it for a broad range of social scientists - including students, researchers and practitioners.

New Directions in Science and Environmental Communication: Understanding the Role of Online Video-Sharing and Online Video-Sharing Platforms for Science and Research Communication Sep 15 2021

Cognitive Tools for Learning Dec 26 2019 Hypermedia technology needs a creative approach from the outset in the design of software to facilitate human thinking and learning. This book opens a discussion of the potential of hypermedia and related approaches to provide open exploratory learning environments. The papers in the book are based on contributions to a NATO Advanced Research Workshop held in July 1990 and are grouped

into six sections: - Semantic networking as cognitive tools, - Expert systems as cognitive tools, - Hypertext as cognitive tools, - Collaborative communication tools, - Microworlds: context-dependent cognitive tools, - Implementing cognitive tools. The book will be valuable for those who design, implement and evaluate learning programs and who seek to escape from rigid tactics like programmed instruction and behavioristic approaches. The book presents principles for exploratory systems that go beyond existing metaphors of instruction and provokes the reader to think in a new way about the cognitive level of human-computer interaction.

Leadership of Assessment, Inclusion, and Learning Jan 27 2020 This book provides pragmatic strategies and models for student assessment and ameliorates the heightened sense of confusion that too many educators and leaders experience around the complexities associated with assessment. In particular, it offers guidance to school and district personnel charged with fair and appropriate assessment of students who represent a wide variety of abilities and cultures. Chapters focus on issues that directly impact the educational lives of teachers, students, parents, and caregivers. Importantly, the confluence of assessment practices and community expectations also are highlighted. Assessment is highly politicised in contemporary society and this book will both confirm and challenge readers' beliefs and practices. Indeed, discerning readers will understand that the chapters offer them a bridge from many established assessment paradigms to pragmatic, ethical solutions that align with

current expectations for schools and districts. In Part One, readers engage with concepts and skills needed by school learning leaders to guide optimal assessment practices. Part Two delves into student assessment within and across disciplines. Part Three provides pragmatic approaches that address assessment in the context of inclusive intercultural education, pluralism, and globalisation.

The Biology Teacher's Handbook Oct 04 2020 BSCS experts have packed this volume with the latest, most valuable teaching ideas and guidelines. No matter the depth of your experience, gain insight into what constitutes good teaching, how to guide students through inquiry, and how to create a culture of inquiry using science notebooks and other strategies.

Biology Dec 30 2022

Concept Map-Based Formative Assessment of Students' Structural Knowledge Oct 28 2022 The modern knowledge-based economic model demands highly qualified specialists who are capable of solving complex problems and seeing relationships between phenomena, events, and objects. This book highlights the development of the structural knowledge of university students as a necessary precondition for preparing labour market experts, as it facilitates significant cognitive processes, effective problem solving and expert-level performance. The volume considers structural knowledge as an object that should be regularly assessed and further developed in the formative assessment process by using concept mapping as an assessment instrument. It describes concept mapping, the theoretical

foundations of structural knowledge, and its formative assessment, and provides a set of practical scenarios validated in instructional practice. It is intended primarily for the administrative and educational staff of higher education institutions who wish to improve the quality of education with the aim of bringing students' structural knowledge closer to experts' knowledge, and thus ensuring better preparation of students for their professional activities.

Science Educator's Guide to Laboratory Assessment Jul 13 2021 Focus on frequent, accurate feedback with this newly expanded guide to understanding assessment. Field-tested and classroom ready, it's designed to help you reinforce productive learning habits while gauging your lessons' effectiveness. The book opens with an up-to-date discussion of assessment theory, research, and uses. Then comes a wealth of sample assessment activities (nearly 50 in all, including 15 new ones) in biology, chemistry, physics, and Earth science. You'll like the activities' flexibility. Some are short tasks that zero in on a few specific process skills; others are investigations involving a variety of skills you can cover in one or two class periods; and still others are extended, in-depth investigations that take several weeks to complete. Keyed to the U.S. National Science Education Standards, the activities include reproducible task sheets and scoring rubrics. All are ideal for helping your students reflect on their own learning during science labs.

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