

## Atlas of Science Literacy

Two Volumes Map K–12 Science Learning



Science literacy depends on knowledge that is richly interconnected, forming a coherent understanding of the world and how it works. *Atlas of Science Literacy, Volume 2*, Project 2061's newest tool for educators, is helping teachers across the country see how students might develop this coherent understanding as they move from kindergarten through 12th grade. Co-published by Project 2061 and the National Science Teachers Association, *Atlas 2* joins the original *Atlas 1* in giving teachers a new perspective on K–12 learning in science, mathematics, and technology.

With the publication of *Atlas 2*, the *Atlas* volumes now include nearly 100 conceptual strand maps that chart all of the learning goals specified in Project 2061's *Benchmarks for Science Literacy*. *Benchmarks* was derived from the recommendations for adult science literacy proposed in Project 2061's landmark report *Science for All Americans*. By providing a visual display of the *Benchmarks* learning goals, the *Atlas* maps make it easier for teachers to see the relationships among ideas within and across core topics.

The *Atlas* maps—and commentary on the maps—offer educators the “big picture” of

what students can be expected to learn in different grades and foster the design of more coherent curriculum, instruction, and assessment. When these three elements promote coherence, science literacy can be approached not as a compilation of isolated bits of information and abilities, but as a rich fabric of mutually supporting ideas and skills that must develop over time.

### What's New in *Atlas 2*

In addition to contributing new maps to *Atlas* chapters that were not fully covered in Volume 1, Volume 2 introduces maps for two chapters that were not covered at all in the earlier volume. Chapter 30: Historical Perspectives introduces nine new maps on important episodes of scientific discovery, including maps on The Copernican Revolution, Relativity, Splitting the Atom, and Explaining Evolution. Chapter 32: Habits of Mind presents six maps that deal with attitudes, skills, and values that are essential to science literacy (see Values in Science map on page 4).

Also new to *Atlas 2* are improvements to the maps themselves. Based on feedback from participants in Project 2061's *Atlas* workshops, on the needs of curriculum materials developers, and on Project 2061's own work clarifying what particular benchmarks expect students to know, the new volume incorporates the following enhancements:

- **Increased Coherence:** *Atlas 2* identifies a wider array of important connections among key ideas and shows these connections explicitly in the maps. Off-map Connections show links to the codes of related bench-

*Continued on page 5*



*“Project 2061 has done it again—a simply elegant, well-thought-out, visionary tool for goal-oriented teaching and learning!”*  
—Page Keeley, *Maine Mathematics and Science Alliance*

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# Atlas Of Science Literacy Project 2061

**David A. Squires**



## **Atlas Of Science Literacy Project 2061:**

*Atlas of Science Literacy*, 2001      **Atlas of Science Literacy**, 2001 An oversized book with ambitious goals That s the Atlas of Science Literacy Asking then answering such vital questions as What should students learn When should they learn it and in what order How does each strand of knowledge connect to other vital threads This new educational tool from AAAS s Project 2061 graphically depicts connections among the learning goals established in Benchmarks for Science Literacy and Science for All Americans The Atlas is a collection of 50 linked maps that show exactly how students from kindergarten through 12th grade can expand their understanding and skills toward specific science literacy goals But the maps don t just show the sequence of Benchmark ideas that lead to a goal They also show the connections across different areas of mathematics technology and of course science including gravity evolution and natural selection the structure of matter and the flow of matter and energy in ecosystems This groundbreaking book is every school s road map to helping children learn science systematically Using the Atlas of Science Literacy as your guide trace the prerequisites for learning in each grade make the connections to support science content and show the way to the next steps to learning for your students      **Your Science Classroom** M. Jenice Goldston, Laura Downey, 2012-01-18 Your Science Classroom Becoming an Elementary Middle School Science Teacher by authors M Jenice Dee Goldston and Laura Downey is a core teaching methods textbook for use in elementary and middle school science methods courses Designed around a practical practice what you teach approach to methods instruction the text is based on current constructivist philosophy organized around 5E inquiry and guided by the National Science Education Teaching Standards      [Kid's Eye View of Science](#) Susan Kovalik, Karen D. Olsen, 2010-09-08 Examines learning science from multiple perspectives including the child s perspective guides readers through the steps of igniting students natural sense of wonder incorporating brain research integrating science concepts with other subjects and applying science to daily life demonstrates how to teach science conceptually through the lens of big ideas such as change interdependence and adaptation      [Science Curriculum Topic Study](#) Page Keeley, 2005-02-23 Without question this book will be of great value to the profession of science teaching Given today s educational landscape of standards and high stakes testing curriculum topic study is an essential piece of the puzzle Cary Sneider Vice President for Educator Programs Museum of Science Boston Discover the missing link between science standards teacher practice and improved student achievement Becoming an accomplished science teacher not only requires a thorough understanding of science content but also a familiarity with science standards and research on student learning However a comprehensive strategy for translating standards and research into instructional practice has been lacking since the advent of standards based education reform Science Curriculum Topic Study provides a systematic professional development strategy that links science standards and research to curriculum instruction and assessment Developed by author Page Keeley of the Maine Mathematics and Science Alliance the Curriculum Topic Study CTS process can help teachers align curriculum instruction and assessment with

specific research based ideas and skills The CTS process will help teachers Improve their understanding of science content Clarify a hierarchy of content and skills in a learning goal from state or local standards Define formative and summative assessment goals and strategies Learn to recognize and address learning difficulties Increase opportunities for students of all backgrounds to achieve science literacy Design or utilize instructional materials effectively Containing 147 separate curriculum topic study guides arranged in eleven categories that represent the major domains of science this book provides the tools to both positively impact student learning and develop the knowledge and skills that distinguish expert science teachers from novices

*The Language of Science Education* William F. McComas, 2013-12-30 The Language of Science Education An Expanded Glossary of Key Terms and Concepts in Science Teaching and Learning is written expressly for science education professionals and students of science education to provide the foundation for a shared vocabulary of the field of science teaching and learning Science education is a part of education studies but has developed a unique vocabulary that is occasionally at odds with the ways some terms are commonly used both in the field of education and in general conversation Therefore understanding the specific way that terms are used within science education is vital for those who wish to understand the existing literature or make contributions to it The Language of Science Education provides definitions for 100 unique terms but when considering the related terms that are also defined as they relate to the targeted words almost 150 words are represented in the book For instance laboratory instruction is accompanied by definitions for openness wet lab dry lab virtual lab and cookbook lab Each key term is defined both with a short entry designed to provide immediate access following by a more extensive discussion with extensive references and examples where appropriate Experienced readers will recognize the majority of terms included but the developing discipline of science education demands the consideration of new words For example the term blended science is offered as a better descriptor for interdisciplinary science and make a distinction between project based and problem based instruction Even a definition for science education is included The Language of Science Education is designed as a reference book but many readers may find it useful and enlightening to read it as if it were a series of very short stories

**Mathematics Curriculum Topic Study** Page Keeley, Cheryl M. Rose, 2006-04-06 The Curriculum Topic Study CTS process provides a professional development strategy that links mathematics standards and research to curriculum instruction and assessment

**Contemporary Curriculum** John D. McNeil, 2008-09-29 Practical tools for joining curriculum conversation Curriculum is a field in continual flux the result of an ongoing discussion among teachers approaching from a multitude of perspectives Contemporary Curriculum In Thought and Action Seventh Edition offers the tools to participate in curriculum discussion and to construct and implement curriculum in the classroom The Seventh Edition provides you with practical tools for executing curriculum at all levels policy institutional and classroom You ll develop multiple strategies for dealing with curriculum problems and build your skills in such areas as determining goals and purposes providing optimum learning opportunities and organizing for effective

and continuous learning This text encourages online curriculum conversation among users and two way communication between the author and readers With an array of thoughtful new features and content the Seventh Edition now Profiles thinkers and resources who are energizing the field with new departures that deviate from the established views or prevailing thought discussed in each chapter Covers political ideologies the conflicts over school subject matter and data driven decision making at state district school and classroom levels Examines the functioning of schools and media as democratic institutions and the relationship of citizens and the political system Discusses the impact of the privatization of schooling and the world wide growth of the Silent Curriculum With a balanced presentation of humanistic social reconstructionist systemic and academic perspectives and fresh insights into key curriculum questions Contemporary Curriculum In Thought and Action Seventh Edition comprises an excellent foundation for every educator from master s to doctoral level

**Handbook of Research on Science Education** Norman G. Lederman,Dana L. Zeidler,Judith S. Lederman,2023-03-17 Volume III of this landmark synthesis of research offers a comprehensive state of the art survey highlighting new and emerging research perspectives in science education Building on the foundations set in Volumes I and II Volume III provides a globally minded up to the minute survey of the science education research community and represents the diversity of the field Each chapter has been updated with new research and new content and Volume III has been further developed to include new and expanded coverage on astronomy and space education epistemic practices related to socioscientific issues design based research interdisciplinary and STEM education inclusive science education and the global impact of nature of science and scientific inquiry literacy As with the previous volumes Volume III is organized around six themes theory and methods of science education research science learning diversity and equity science teaching curriculum and assessment and science teacher education Each chapter presents an integrative review of the research on the topic it addresses pulling together the existing research working to understand historical trends and patterns in that body of scholarship describing how the issue is conceptualized within the literature how methods and theories have shaped the outcomes of the research and where the strengths weaknesses and gaps are in the literature Providing guidance to science education faculty scholars and graduate students and pointing towards future directions of the field Handbook of Research on Science Education Research Volume III offers an essential resource to all members of the science education community

Digital Knowledge Maps in Education Dirk Ifenthaler,Ria Hanewald,2013-11-01 Digital knowledge maps are at a glance visual representations that enable enriching imaginative and transformative ways for teaching and learning with the potential to enhance positive educational outcomes The use of such maps has generated much attention and interest among tertiary education practitioners and researchers over the last few years as higher education institutions around the world begin to invest heavily into new technologies designed to provide online spaces within which to build resources and conduct activities The key elements of this edited volume will comprise original and innovative contributions to existing

scholarship in this field with examples of pedagogical possibilities as they are currently practiced across a range of contexts It will contain chapters that address theory research and practical issues related to the use of digital knowledge maps in all aspects of tertiary education and draws predominantly on international perspectives with a diverse group of invited contributors Reports on empirical studies as well as theoretical conceptual chapters that engage deeply with pertinent questions and issues raised from a pedagogical social cultural philosophical and or ethical standpoint are included Systematic literature reviews dealing with digital knowledge mapping in education are also an integral part of the volume

*Professional Development* Jack Rhoton, Patricia Bowers, 2001 There s got to be more to professional development than in service workshops This thoughtful book paves the way to change It shows the circumstances under which professional development has the most impact on student learning reviews programs that work and offers practical ideas about how professional development can sustain science education reform      **Help! I'm Teaching Middle School Science** C. Jill Swango, Sally Boles Steward, 2003 Like your own personal survival guide Help IOCOM Teaching Middle School Science is a nontechnical how to manualOCoespecially for first year teachers But even veteran teachers can benefit from the plentiful ideas examples and tips on teaching science the way middle schoolers learn best The book covers all the basics what to do on the first day of school including icebreaker activities preparing safe and effective lab lessons managing the classroom working with in school teams as well as parents But its practicalOCOand encouragingOCOapproach doesnOCOt mean it shortchanges the basics of effective pedagogy YouOCOLL learn how to handle cooperative learning and assessment how to help students write effectively and the importance of modeling for early adolescents      *The Art of Teaching Science* Jack Hassard, Michael Dias, 2013-07-04 The Art of Teaching Science emphasizes a humanistic experiential and constructivist approach to teaching and learning and integrates a wide variety of pedagogical learning tools These tools involve inquiry and experimentation reflection through writing and discussion as well as experiences with students science curriculum and pedagogy Becoming a science teacher is a creative process and this innovative textbook encourages students to construct ideas about science teaching through their interactions with peers professionals and instructors and through hands on minds on activities designed to foster a collaborative thoughtful learning environment      **A Leader's Guide to Mathematics Curriculum Topic Study** Page Keeley, 2012-05-30 The Curriculum Topic Study CTS process funded by the National Science Foundation helps teachers improve their practice by linking standards and research on how children learn mathematics to classroom practice Keyed to the core book Mathematics Curriculum Topic Study this resource helps maths professional development leaders      **Teaching Science Today** Barbara Houtz, 2008-05-15 A research based guide offers best practices based on proven methodology and provides educational strategies enhanced by interactive elements      Curriculum Alignment David A. Squires, 2009 One of the few books that takes a holistic look at alignment and helps clarify the definition of alignment Squires helped increase my knowledge as an instructional leader and showed me that alignment can be a

valuable tool when used with real intent The book engaged me in authentic reflection on my professional practice Margaret Couture Principal South Seneca Central School District NY Use the power of alignment to strengthen curriculum and raise student achievement Aligning what is taught written and tested can be a powerful systemic way of improving school performance This guidebook written by a long time educator and proponent of curriculum alignment demonstrates how to apply specific principles and recommendations to improve curriculum instruction and test scores This resource offers school and district administrators and curriculum specialists concrete practical guidance for aligning curriculum and instruction with state standards and assessments to improve teaching and learning The author offers research based strategies that reinforce the importance of curriculum alignment and shows how districts can Use alignment as a major curriculum design element Translate research into usable strategies to achieve measurable results Expand options for raising test results and student outcomes Connect school policy with continuous school improvement Meet the requirements of No Child Left Behind Comprehensive thoughtful and realistic Curriculum Alignment offers a wide range of approaches to appeal to educators at every level *The Science Teacher*, 2009 Resources in Education, 1998 Strategies for Teaching Science, Levels 6-12 Barbara Houtz, 2011-06-01 Developed for grades 6-12 this rich resource provides teachers with practical strategies to enhance science instruction Strategies and model lessons are provided in each of the following overarching topics inquiry and exploration critical thinking and questioning real world applications integrating the content areas and technology and assessment Research based information and management techniques are also provided to support teachers as they implement the strategies within this resource This resource supports core concepts of STEM instruction **Handbook of Research on Science Learning Progressions** Hui Jin, Duanli Yan, Joseph Krajcik, 2024-07-30 Gathering contributions from leading scholars around the world this handbook offers a comprehensive resource on the most recent advances in research surrounding the theories methodologies and applications of science learning progressions Researchers and educators have used learning progressions to guide the design and alignment of curriculum instruction and assessment and to help students learn scientific knowledge and practices in a coherent and connected way across multiple years This handbook lays out the development and current state of research in this field across four sections learning progression theories and methodologies learning progressions to promote student learning teachers learning and use of learning progressions and new technology in learning progression research Featuring internationally recognized experts in learning progression research as well as up and coming voices the Handbook of Research on Science Learning Progressions offers a defining new resource for researchers teachers and teacher educators and curriculum and assessment developers in science education

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