

The art of teaching science: inquiry and innovation in middle school and high school, 2008, 559 pages, Jack Hassard, Michael Dias, 0415965284, 9780415965286, Routledge, 2008

The Art of Teaching Science emphasizes a humanistic, experiential, and constructivist approach to teaching and learning, and integrates a wide variety of pedagogical tools. 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, mentors, and instructors, and through hands-on, minds-on activities designed to foster a collaborative, thoughtful learning environment. This second edition retains key features such as inquiry-based activities and case studies throughout, while simultaneously adding new material on the impact of standardized testing on inquiry-based science, and explicit links to science teaching standards. Also included are expanded resources like a comprehensive website, a streamlined format and updated content, making the experiential tools in the book even more useful for both pre- and in-service science teachers. Special Features: Each chapter is organized into two sections: one that focuses on content and theme; and one that contains a variety of strategies for extending chapter concepts outside the classroom. Case studies open each chapter to highlight real-world scenarios and to connect theory to teaching practice. Contains 33 Inquiry Activities that provide opportunities to explore the dimensions of science teaching and increase professional expertise. Problems and Extensions, On the Web Resources and Readings guide students to further critical investigation of important concepts and topics. An extensive companion website includes even more student and instructor resources, such as interviews with practicing science teachers, articles from the literature, chapter PowerPoint slides, syllabus helpers, additional case studies, activities, and more. Visit <http://www.routledge.com/textbooks/9780415965286> to access this additional material.

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The Impact of State and National Standards on K-12 Science Teaching , Dennis W. Sunal, Emmett Wright, 2006, Education, 440 pages. This book addresses the expectations toward the science standards of various stakeholders including students, parents, teachers, administrators, higher education science and.

Scientific Literacy for Canadian Students Curriculum, Instruction, and Assessment, Keith Roscoe, Rick Mrazek, Jan 1, 2005, Education, 248 pages. .

Teaching Strategies: A Guide to Effective Instruction , Donald Orlich, Robert Harder, Richard Callahan, Michael Trevisan, Abbie Brown, Jan 1, 2012, Business & Economics, 384 pages. TEACHING STRATEGIES: A GUIDE TO EFFECTIVE INSTRUCTION, now in its tenth edition, is known for its practical, applied help with commonly used classroom teaching strategies and.

Science Instruction in the Middle and Secondary Schools Developing Fundamental Knowledge and Skills, Eugene L. Chiappetta, Tom Koballa, Mar 21, 2014, Education, 320 pages. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Science Instruction.

The Development and Implementation of a Teacher Education Model in Environmental Science Education for Indian Certificate of Secondary Education (ICSE) Schools , Anuradha Patil, 2006,

Environmental sciences, 181 pages. On using the model, the teaching became more student-centered, as the teachers strove to include constructive and inquiry-based approaches. The use of technology enhanced the.

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Teaching Science to Every Child Using Culture as a Starting Point, John Settlage, Sherry Southerland, Apr 23, 2012, Education, 416 pages. Providing timely and practical guidance about teaching science to all students, this text emphasizes making science accessible to populations who are typically pushed to the.

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