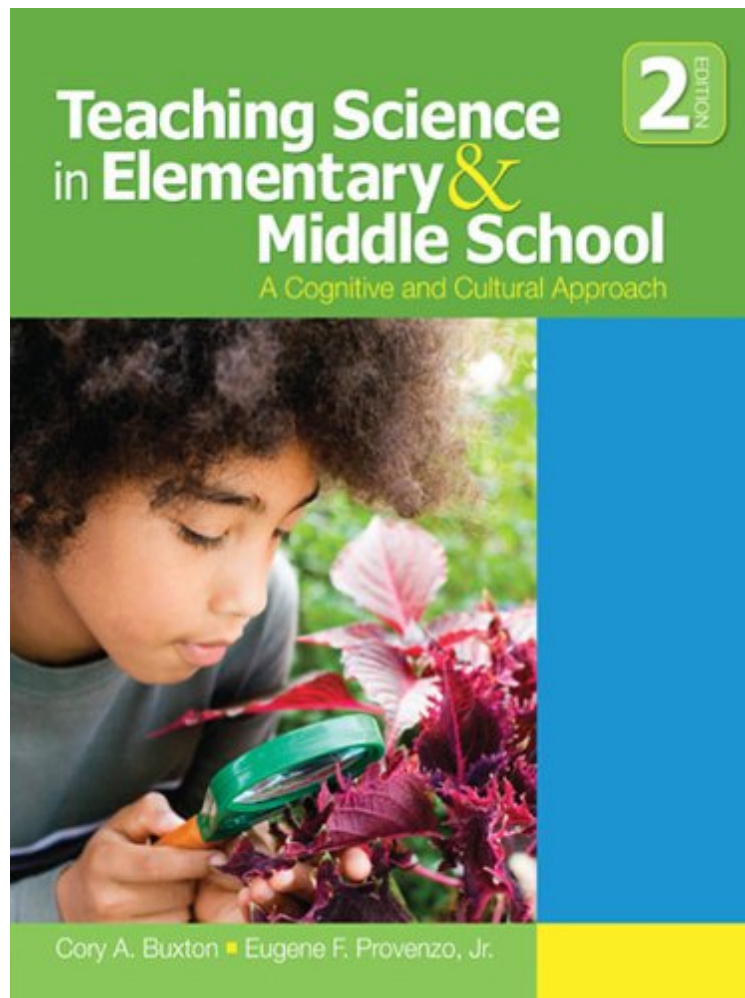


Teaching Science in Elementary and Middle School: A Cognitive and Cultural Approach

Cory A. Buxton, Eugene F., Jr. Provenzo
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A practical methods text that prepares teachers to engage their students in rich science learning experiences Featuring an increased emphasis on the way today's changing science and technology is shaping our culture, this Second Edition of Teaching Science in Elementary and Middle School provides pre- and in-service teachers with an introduction to basic science concepts and methods of science instruction, as well as practical strategies for the classroom. Throughout the book, the authors help readers learn to think like scientists and better understand the role of science in our day-to-day lives and in the history of Western culture. Part II features 100 key experiments that demonstrate the connection between content knowledge and effective inquiry-based pedagogy. The Second Edition is updated throughout and includes new coverage of applying multiple intelligences to the teaching and learning of science, creating safe spaces for scientific experimentation, using today's rapidly changing online technologies, and more. New to This Edition: Links to national content standards for Mathematics, Language Arts, and Social Studies help readers plan for teaching across the content areas. Discussions of federal legislation, including No Child Left Behind and Race To The Top, demonstrate legislation's influence on classroom science teaching. New "Scientists Then and Now" biographies provide practical examples of how great scientists balance a focus on content knowledge with a focus on exploring new ways to ask and answer questions. Sixteen additional video demonstrations on the Instructor Teaching Site and Student Study Site illustrate how to arrange and implement selected experiments.

Albuquerque Public Schools- Hoover Middle School "I love this book! I am teaching 7th grade life science and 8th grade physical science and without this book this journey would have been much more difficult. The labs the book has provided are awesome. With many other science books the materials they suggest using are impossible for a public school to acquire. The household items needed to perform most of these experiments make them much easy to demonstrate in the class. I love how the book has provided scientific explanation at the beginning of each set of labs. At the beginning of every unit I look at the experiment section and plan which ones we will be doing. Teaching Science in Elementary and Middle School is a must for every science teacher!" -- Britt Baiamonte Albuquerque Public Schools- Hoover Middle School
"I love this book! I am teaching 7th grade life science and 8th grade physical science and without this book this journey would have been much more difficult. The labs the book has provided are awesome. With many other science books the materials they suggest using are impossible for a public school to acquire. The household items needed to perform most of these experiments make them much easy to demonstrate in the class. I love how the book has provided scientific explanation at the beginning of each set of labs. At the beginning of every unit I look at the experiment section and plan which ones we will be doing. Teaching Science in Elementary and Middle School is a must for every science teacher!" (Britt Baiamonte 2007-04-12)
About the Author Gene Provenzo is one of the nation's leading scholars in the foundations of education. He holds the rank of full professor at the University of Miami. He has won numerous awards throughout his career in both teaching and research and sits on many editorial boards. He has authored over ten books and has contributed chapters to many more. He has authored scores of articles in a wide range of areas in education. His recent projects include Teaching, Learning, and Schooling (Allyn Bacon, 2002), a critically-oriented introduction to the foundations of education textbook, and the forthcoming Readings in Educational Thought (SAGE, 2005).