



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

*Cory A. Buxton, Eugene F. 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.

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