



# Teaching Science in Elementary and Middle School Classrooms: A Project-Based Approach

*Joseph S. Krajcik, Charlene M. Czerniak, Carl F. Berger, Carl Berger*

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This text provides an overview of current science teaching practices for the elementary and middle grades. The authors, top scholars in the field of Science Education, believe that all children should develop an in-depth and meaningful understanding of scientific concepts and processes. To achieve this, the text utilizes the Project Based Approach. Project-based science stresses that science teaching should emphasize the active engagement of students in science, rather than teachers telling students information. Each chapter has several Portfolio Activity boxes that provide active learning experiences or reflections for the student. Like the first edition, the text includes numerous strategies in each chapter that help both new and experienced teachers understand how to teach science in an active and engaging manner. The text also shows teachers how to implement the National Science Education Standards (NSES) and constructivist strategies. A NSES marginal feature keys content to the standards. Moreover, this textbook helps teachers learn how to implement all of today's major reforms; not just read about them.

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