



Methods for Teaching Science as Inquiry (10th Edition)

Joel E. Bass, Terry L. Contant, Arthur A. Carin

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Methods for Teaching Science as Inquiry (10th Edition) Joel E. Bass, Terry L. Contant, Arthur A. Carin *Methods for Teaching Science as Inquiry* introduces prospective and experienced teachers to the science content and teaching strategies necessary to teach science in contemporary ways. Traditional learning focuses on learning about things. The teacher dispenses the information and the student receives it. The inquiry approach emphasizes how we learn things rather than just what we know. Instead of just memorizing facts, students are actively involved in learning. Learning becomes fun when students are fascinated by something and it reflects their interests, goals, and experiences.

The primary focus of this book is on the 5-E Model (Engaging, Exploring, Explaining, Elaborating, and Evaluating,) a Learning Cycle Model that reflects the NSES Science as Inquiry Standards. The inclusion of these standards will provide all readers a useful framework for making instructional decisions. Classroom scenarios throughout the book illustrate strategies of inquiry instruction and introduce readers to important science concepts. The scenarios also provide opportunities for readers to develop more science knowledge themselves.

For the instructor whose sole focus is methods, the ten chapters of this core text scaffold concepts and illustrate instructional models to help readers understand the inquiry approach to teaching.

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