

Becoming a Secondary School Science Teacher

By L.W. Trowbridge, R. Bybee

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For graduate and undergraduate courses in Methods of Teaching Secondary School Science, Trends in Science Education, Curriculum Development in Secondary Schools and Middle School Science Methods. This market-leading text has been updated to reflect the latest in learning theory, science reform, and professional development. With their extensive teaching experience, the authors convey principles and practices of secondary school science teaching through practical examples of successful teaching strategies.

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Becoming a Secondary School Science Teacher By L.W. Trowbridge, R. Bybee Bibliography

- Sales Rank: #12423521 in Books
- Published on: 1986-04
- Original language: English
- Number of items: 1
- Binding: Paperback
- 348 pages

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Editorial Review

From the Publisher
Using their extensive teaching experiences, these authors convey principles and practices of secondary school science teaching through practical examples of successful teaching strategies. The Sixth Edition updates coverage to reflect the latest developments, guidelines and everchanging profile of today's diverse classroom.

From the Back Cover
This market-leading book has been updated to reflect the latest in learning theory, science reform, and professional development. Includes complete chapters on incorporating educational technology into the science classroom, classroom management and conflict resolution, and teaching science for cultural and gender differences. For Educators and School Administrators for Secondary Science.

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The authors have designed the eighth edition of *Teaching Secondary School Science: Strategies for Developing Scientific Literacy* primarily for use by undergraduate preservice teachers of science. The text provides information and suggestions for teaching physical, biological, and earth sciences in the middle school, junior high school, and high school grades. It is also useful for graduate students whose undergraduate majors were outside the field of education, but for whom teaching middle and secondary school science is now a primary career goal. This book is also an important resource for graduate students and experienced teachers in courses concerned with assessment in science classes, curriculum development and reform, instructional problems, and current trends in science teaching. It may also be used as a guide and reference in workshops and institutes for teachers emphasizing strategies for inquiry teaching. The current emphases on science education standards are fully explained and brought to the foreground for science programs in this new edition.

The eighth edition retains the strong features of previous editions. Among these features are emphasis on active pupil involvement in learning, use of inquiry and investigative teaching strategies to provide experiences in solving real problems, gathering data to support hypotheses, discussion of the constructivist approach to teaching, and use of the learning cycle strategy. Many practical examples of successful teaching strategies are provided, based on the extensive science teaching experience of the authors.

Throughout the textbook, the theme of developing scientific literacy among science students is stressed. Included are suggestions for fostering the effective reading of science materials, developing the vocabulary of science, and raising the level of awareness of the interrelationships among science, technology, and society.

ORGANIZATION

The eighth edition has been newly organized to encompass seven units:

- Introduction
- Historical Perspectives and Contemporary Trends
- Goals and Objectives
- Curriculum Perspectives

- Planning for Instruction and Assessment
- Understanding and Working with Students
- Induction and Professional Development

These units have been reorganized not only to provide prospective secondary science teachers with the tools and resources they need to teach science effectively on a day-to-day basis, but also to help them to develop a holistic view of the career in science teaching that they have chosen and to promote enthusiasm and a desire to succeed at the tasks they encounter.

NEW AND UNIQUE FEATURES IN THIS EDITION

- **Teaching science activity features,** including *Investigating Science Teaching*, *Engaging in Action Research*, and *Experiencing Ethical Analysis*, are located at the end of each chapter and provide an opportunity for students to experience science.
- **Icons highlight new integrated technology resources.** Discussions of technology have been updated and woven throughout the text, including *Technology margin* notes that encourage students to visit the text's new website at **www.prenhall.com/trowbridge** for further research and supplemental science activities.
- **Guest Editorials** that showcase actual preservice and inservice science teachers appear throughout the text to help illustrate concepts and provide some real-world context for students.
- **Two Resource Sections: Appendix A** provides additional *Teaching Science Activities* in biology, chemistry, earth sciences, physics, problem solving, science fair projects, technology, and mathematics, as well as activities for gifted students. *Appendix B* provides sample daily lesson plans that offer practice in using the five-step *learning cycle strategy* for inquiry teaching and learning in physical, life, and earth/ environmental sciences.

Users Review

From reader reviews:

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