



# The Sourcebook for Teaching Science, Grades 6-12: Strategies, Activities, and Instructional Resources

By Herr, Norman

Jossey-Bass, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: About this Resource. About the Author. Acknowledgments. I. DEVELOPING SCIENTIFIC LITERACY.1. Building a Scientific Vocabulary.For the Teacher.1.1. Biology Vocabulary.1.2. Chemistry Vocabulary.1.3. Physics Vocabulary.1.4. Earth and Space Science Vocabulary.Answers.2. Developing Science Reading Skills.For the Teacher.2.1. Science Reading Comprehension - Cloze.2.2. Science Reading Comprehension - Jigsaw.2.3. Science Vocabulary in Spanish and English.2.4. Scientific Terminology - Linking Languages. Answers. References. 3. Developing Science Writing Skills.For the Teacher.3.1. Science Note-Taking.3.2. Science Journaling.3.3. Science Essay Questions.3.4. Types of Science Writing.3.5. Science Writing Style. Answers. References. 4. Science, Technology and Society. For the Teacher. 4.1. Science and Society. 4.2. Science and Other Subjects.4.3. Careers in Science.4.4. Science and Technological Innovation. Answers. References. II. DEVELOPING SCIENTIFIC REASONING.5. Employing Scientific Methods .For the Teacher.5.1. Discrepant Events - Establishing a "Need to Know".5.2. Developing Scientifically Oriented Questions.5.3. Observation vs. Inference.5.4. Brainstorming and Hypothesizing.5.5. Experimental Design.5.6. Independent Variables.5.7. Writing Clear Procedures.5.8. Using History to Teach Scientific Methods.5.9. Indirect Evidence - "Black Box" Experiments.5.10. Evaluating Hypotheses. Answers. References. 6. Developing Scientific Reasoning Skills . For the Teacher. 6.1. Levels of Reasoning.6.2. Inductive Reasoning.6.3. Deductive Reasoning.6.4. Lateral Thinking. Answers. References. 7. Thinking Critically and Resolving Misconceptions. For the Teacher.7.1. Critical Thinking .7.2 Evaluating Claims.7.3 Using a Decision-Making Matrix.7.4 Misconceptions in Physics.7.5 Misconceptions in Chemistry.7.6 Misconceptions in Biology.7.7 Misconceptions in Earth...



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