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Teaching - Pedagogy

AAAS. (2001). Atlas of Scientific Literacy. Washington, DC.

American Association for the Advancement of Science, Project 2061. (1993). Benchmarks for Science Literacy. New York, NY: Oxford University Press.

Bell; Gess-Newsome; Luft. (2008). Technology in the Secondary Science Classroom. NSTA Press.

Christman. (2006). Technology Based Inquiry for Middle School. NSTA Press.

Gallagher. (2007). Teaching Science for Understanding: A Practical Guide for Middle and High School Teachers. Pearson.

Keeley. (2008). Science Formative Assessment: 75 Practical Strategies for Linking Assessment, Instruction, and Learning. Corwin Press.

Martin, Sexton, Franklin. (2009). Teaching Science for all Children: Inquiry Methods for Constructing Understanding. 4th Ed. Pearson.

Motz; Biehle; West. (2007). NSTA Guide to Planning School Science Facilities. NSTA Press.

National Research Council. (2000). How People Learn: Brain, Mind, Experience, and School. Expanded edition. National Academy Press of Science.

National Research Council. (2000). How People Learn: History, Mathematics, and Science in the Classroom. National Academy Press of Science.

National Research Council. (2005). How Students Learn . Washington, D.C: National Academics Press.

National Research Council. (2000). Inquiry and the NSES. Washington, D.C: National Academy Press.

National Research Council. (1999). Selecting Instructional Materials. Washington, D.C: National Academy Press.

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National Research Council (2004). NSTA Pathways to the Science Standards High School Edition. 2nd ed.

Rhoton and Bowers. (2003). Science Teacher Retention - Mentoring and Renewal. NSTA Press.

Roy, Kenneth. (2007). The NSTA Ready-Reference Guide to Safer Science. NSTA Press.

The Biology Teacher's Handbook. (2009). 4th Ed. NSTA Press.

Smithenry, Gallagher-Bolos. (2009). Whole-Class Inquiry: Creating Student-Centered Science Communities. NSTA Press.

Summers; Texley; Kwan. (2006). Science Safety in the Community College. NSTA Press.

Thompson. (1998). Discipline: Survival Kit for the Secondary Teacher. John Wiley & Sons.

Yager, R. (Ed.) (2005). Exemplary Science: Best Practices in Professional Development. Arlington, VA: NSTA Press.

Activity Books

Bosak, Susan V. (2000). Science Is... Scholastic Canada Ltd.

Ingram, Mrill. (1993). Bottle Biology: An Idea Book for Exploring the World Through Soda Bottles and Other Recyclable Materials. Kendall-Hunt Publishing Co.

Kardos, T. (1996). 75 Easy Chemistry Demonstrations. Portland, ME.: J. Weston Walch Publisher.

Liem, Tik. (1987). Invitations to Science Inquiry. 2nd. ed. Chino Hills, CA: Science Inquiry Enterprises.

Nanoscale Science. (2007). NSTA Press.

Shakhashiri, Bassam Z. (1985). Chemical Demonstrations. V. 1-4. University of Wisconsin Press.

Van Cleave. New York , NY: J. John Wiley & Sons.

(1993) A+ Projects in Chemistry.

(1990) Biology for Every Kid.

(1989) Chemistry for Every Kid.

(1991) Earth Science For Every Kid.

(1996) Ecology for Every Kid.

Williams, P. (1995). Exploring With Wisconsin Fast Plants. Dubuque, IA: Kendall/Hunt Publishing Co.

Wisconsin Fast Plants Manual. (1989). Burlington, NC: Carolina Biological Supply Company.

High School Textbook Categories

Biology

BSCS

BSCS Biology: A Human Approach. (2006). Text + Student Guide. 3rd edition. Kendall/Hunt Publishing.

BSCS Biology: An Ecological Approach. (2006). Text + Student Guide. 10th edition. Kendall/Hunt Publishing.

Bioinformatics and the Human Genome Project. (2003). BSCS.

Glencoe

Biology. (2009). Teacher's Wraparound Edition. Glencoe.

Biology: The Dynamics of Life. (2002). Teacher's Wraparound Edition. Glencoe.

Biology: Living Systems. (2003). Teacher's Wraparound Edition. Glencoe.

Biology: An Everyday Experience. (2003). Teacher's Wraparound Edition. Glencoe.

It's About Time

Active Biology. (2004). Student Edition. It's About Time.

BioComm. (2008). Text + Student Edition. It's About Time.

Pearson

Biology. (2010). Teacher's Edition. Pearson.

Exploring Biology. (2006). Teacher's Edition. Pearson.

Other

Insights in Biology: Journey of Discovery. (2007). Teacher's Edition. 2nd edition. Education Development Center, Inc.

Biology. (2008). Teacher's Edition. McDougal Littell.

Biology. (2008). Teacher's Edition. Prentice Hall.

BIOMES: Biology Instructional Strategies for Motivating Every Student. (2003). Price Laboratory School. University of Northern Iowa.

Modern: Biology. (2009). Teacher's Edition. Holt.

Chemistry

Kendall / Hunt

ChemDiscovery: A Quest for Knowledge. (2002). Text + Lab Manual. Kendall/Hunt.

Chemistry. (2009). Kendall/Hunt.

SPICE: Structured Pacing In Chemistry Education. (2000). Text + Teacher's Guide. 2nd Edition. Kendall/Hunt.

Glencoe

Chemistry: Concepts and Applications. (2009). Teacher's Edition. Glencoe.

Chemistry: Matter and Change. (2008). Teacher's Edition. Glencoe.

Other

Chemistry in the Community. (2006). 5th Edition. W.H. Freeman and Company.

Introductory Chemistry. (2002). 2nd Edition. Pearson.

Chemistry. (2002). Guided ready + Study Workbook + Assessment Resource. Addison-Wesley.

CRISTAL: Chemistry Resources and Instructional Strategies for Teaching All Learners. (1998). Price Lab School . University of Northern Iowa .

Modern: Chemistry. (2009). Teacher's Edition. Holt.

Chemistry in the Community. (2002). Text + Skill Building Handbook + Activities Workbook. 2nd Edition. American Chemical Society.

World of Chemistry. (2007). Teacher's Edition. Houghton Mifflin Company.

Chemistry: The Central Science. (2003). 9th Edition. Prentice-Hall.

Active Chemistry. (2007). Text + Teacher's Guide. It's About Time.

Earth Science

It's About Time

Investigating Earth Systems. (2008). It's About Time.

Investigating Earth Systems:*. (2002). Modules + Teacher's Guide each. It's About Time.

*Fossils

*Energy Resources

*Materials and Minerals

*Oceans

*Our Dynamic Planet

*Rocks and Land Forms

*Soil

*Water

*Investigating Climate and Weather

Earth Comm. (2005). 5th Edition. It's About Time.

Earth Comm:*. Teacher's Guide. It's About Time.

*Earth's Dynamic Geosphere (2001)

*Earth's Fluid Spheres (2002)

*Earth System Evolution (2003)

Investigating Earth Systems: Earth in Space: Astronomy. (2006). Modules and Teacher's Guide each. It's About Time.

Vernier

Earth Science with Computers. (2003). Vernier.

Earth Science with Calculators. (2002). Vernier.

Other

GEOMES: Geoscience Education Opportunities for Motivating Every Student. (2003). Price Laboratory School. University of Northern Iowa.

Astronomy: Journey to the Cosmic Frontier. (2008). McGraw-Hill.

Investigating Earth Systems / Select 1. (2006). American Geological Institute.

Environmental Science

Environmental Science. (2008). Teacher's Edition. Holt.

Environmental Science. (2003). Teacher's Edition. Scott-Foresman - Addison Wesley.

Investigating In Environmental Science: Units 1-3: (Land Use / Energy Generation / Water Management). Text + Teacher's Edition. (2005). It's About Time.

Global Science. (2009). Text + Teacher's Edition. Kendall/Hunt.

Forensic

Forensic Science For High School. (2009). 2nd Edition. Kendall/Hunt.

Using Forensics: Wildlife Crime Scene. (2008). Kendall/Hunt.

Forensic Science. (2009). Prentice Hall.

Physics

CPO Science

Physics: A First Course. (2005). CPO Science.

Investigations: Foundations of Physics. (2004). CPO Science.

Foundations of Physics. (2004). CPO Science.

It's About Time

Active Physics. (2010). 3rd Edition. It's About Time.

Active Physics:*. (2000). Text + Teacher's Guide for each Module. It's About Time.

*Medicine

*Transportation

*Home

*Prediction

*Communications

*Sports

Active Physics: Core select. (2005). Text + Teacher's Editions (Vol. 1-3). It's About Time.

Physics and Everyday Thinking. (2008). It's About Time.

Other

Physics. (2000). Teacher's Edition. Holt.

Conceptual Physics. (2009). Teacher's Edition. Pearson.

Physics. (2009). Text + Teaching Ancillaries. Glencoe.

Physics That Works. (2006). Kendall/Hunt.

Prisms Plus:*. (2005). Modules + Teacher's Guide each. Centre Pointe Learning, Inc.

*Force and Motion

*Work and Energy

*Waves and Optics

*Electricity, Magnetism, and Modern Physics

Other Science Text Books

Astrobiology. (2005). Text + Teacher's Guide + Sampler. It's About Time.

PBIS (Project-Based Inquiry Science): Living Together. (2008). It's About Time.

BSCS Science: An Inquiry Approach Level 1. (2006). Text + Teacher's Edition. BSCS.

BSCS Science: An Inquiry Approach Level 2. (2008). Teacher's Edition. BSCS.