

RESOURCES

This is an annotated list of resources that are helpful in the teaching of evolution

BOOKS

EVOLUTION AND CREATIONISM

Science on Trial: The Case for Evolution. Futuyma, D.J. 1995. Sinauer Associates, Inc.
[a book written by a prominent evolutionary biologist that summarizes the evidence for evolution]

Finding Darwin's God: A Scientist's Search for Common Ground Between God and Evolution. Miller, K.R. 1999. Harper Trade.
[this is an excellent, very readable book that explains the different types of creationists, their arguments, and the evidence against their arguments and for evolution; the basic thesis of this book is that Dr. Miller is person of faith, not despite evolution, but because of it]

Science and Creationism: A View from the National Academy of Sciences. National Academy of Sciences. 1999. National Academy Press.
[a booklet published by the NAS that discusses the evidence supporting biological evolution, as well as human evolution; the full text is available online (www.nap.edu/books/0309064066/html/)]

Tower of Babel: The Evidence Against the New Creationism. Pennock, R.T. 1999. MIT Press.
[this is a book written by a philosopher of science; he addresses intelligent design theory (which argues against the philosophical basis of science) on philosophical grounds; he uses the "non-threatening" example of the evolution of languages, as an analogy to biological evolution]

Science and Earth History: The Evolution/Creation Controversy. Strahler, A.N. 1999. Prometheus Books.
[this book introduces the controversy and analyzes many creationism claims in a textbook format]

Evolution: The Triumph of an Idea. Zimmer, C. 2001. Harper Collins Publishers, Japan.
[this book is also a companion to the PBS series, "Evolution," and is a good general overview of evolution]

RESOURCES FOR TEACHING EVOLUTION

Defending Evolution in the Classroom: A Guide to the Creation/Evolution Controversy.

Alters, B.J. & Alters, S.M. 2001. Jones and Bartlett Publishers, Massachusetts.

[this book is an excellent resource for teachers; it clearly addresses many of the common questions about this issue in a question and answer format]

Teaching about Evolution and the Nature of Science. National Academy of Sciences. 1998. National Academy Press.

[a booklet published by the National Academy of Sciences that discusses evolution and the nature of science, including some classroom activities; the full text of this book is available online (www.nap.edu/readingroom/books/evolution98/)]

The Creation Controversy and the Science Classroom. National Science Teachers Association. 2000. NSTA Press.

[this booklet includes an article by Craig Nelson that lists some very good strategies for approaching this topic in the classroom; the booklet is available at the NSTA website: www.nsta.org or go to the ENSI website for an on-line version of the article: php.indiana.edu/~nelson1/NSTA2.html]

The Evolution Explosion: How Humans Cause Rapid Evolutionary Change. Palumbi, S.R. 2001. W.W. Norton & Company, New York.

[this book, written for the general public, details the relevance of evolution to modern life, by explaining how humans have affected the evolution of other species—bacteria, HIV, crop pests, etc.]

Evolution: Teacher's Guide. WGBH. 2001. WGBH, Boston.

[this booklet is a companion to the PBS series, "Evolution;" it contains suggested units on topics related to evolution, including classroom activities; also see PBS' excellent website: www.pbs.org/wgbh/evolution]

MISCELLANEOUS RESOURCES

Reviews of Creationist Books. Hughes, L.R. (ed.). 1992. National Center for Science Education (NCSE).

[this book contains a collection of reviews by various authors on books by creationists; it is intended as a resource for teachers, school boards, etc.; it is available from the NCSE website: www.ncseweb.org]

Summer for the Gods: The Scopes Trial and America's Continuing Debate Over Science and Religion. Larson, E. 1997. Harvard Press.

[winner of the Pulitzer Prize in History, this book details the famous trial, and its impact on American law and society.]

Voices for Evolution. Matsumura, M. (ed.). 1995. National Center for Science Education (NCSE).

[this book contains official statements regarding the teaching of evolution from scientific societies, educational organizations, civil liberties organizations, and religious organizations; it is available from the NCSE website: www.ncseweb.org]

WEBSITES

ON-LINE LESSONS AND RESOURCES

Access Excellence [www.accessexcellence.org]

- ? This site includes many lessons and activities on evolution scattered throughout, although they can be hard to find. For a specific program devoted to evolution, go to: [www.accessexcellence.org/AE/AEPC/WWC/1995/]

Evolution and the Nature of Science Institutes [www.indiana.edu/~ensiweb/]

- ? This site contains a collection of classroom lessons for middle and high school teachers on the nature of science, evolution, and the origin of life.

Evonet [www.evonet.org]

- ? This site is a “worldwide network for evolutionary biology,” is sponsored by several professional scientific societies, and includes links to classroom activities and resources.

PBS Evolution [www.pbs.org/wgbh/evolution]

- ? This is the website for the PBS series, Evolution, which debuted September 24-27, 2001. The site includes many resources and lessons for teaching evolution, including a teacher’s guide with activities integrating the 7 part series.

University of California Museum of Paleontology at Berkeley [www.ucmp.berkeley.edu]

- ? This is an outstanding online museum of paleontology and evolution, with exhibits and classroom activities.

PROFESSIONAL ORGANIZATIONS

American Association for the Advancement of Science [www.aaas.org/spp/dser]

- ? This is AAAS’s Dialogue on Science, Ethics and Religion site. It includes publications on evolution and the relationship between science and religion.

Biological Sciences Curriculum Study [www.bsccs.org]

- ? The BSCS is a “non-profit organization that develops inquiry-based science curricula for K-college.” The site describes their various curriculum programs.

Kansas Citizens for Science [www.kcfs.org]

- ? KCFS is a non-profit organization, formed as a result of the 1999 Kansas Board of Education’s decision to eliminate evolution from the state standards. The goal of this organization is to “promote better understanding of what science is and does by: advocating for science education, educating the public about the nature and value of science, and serving as an information resource.”

National Academy of Sciences [www7.nationalacademies.org/evolution/]

- ? This site maintained by the National Academy of Sciences lists resources for evolution and the nature of science, as well as statements from the Academy and other scientific organizations

National Association of Biology Teachers [www.nabt.org]

- ? This site includes information on NABT publications, the NABT official statement on teaching evolution, as well as links to other resources.

National Center for Science Education [www.ncseweb.org]

- ? The NCSE is a nonprofit organization “working to defend the teaching of evolution against sectarian attack.” This site includes information on current creationist movements across the country, as well as resources and links to other useful sites. They have a very useful newsletter for members (Reports of the National Center for Science Education).

National Science Teachers Association [www.nsta.org]

- ? This site contains information on NSTA publications, and NSTA position statements regarding evolution.