



Teacher Resources

Books

Brunton, P., and L. Thornton. *Science in the Early Years: Building Firm Foundations from Birth to Five*. Thousand Oaks, CA: Sage Publications, 2010.

The Young Scientist Series:

Chalufour, I., and K. Worth. *Discovering Nature with Young Children*. St. Paul, MN: Redleaf Press, 2003.

Chalufour, I., and K. Worth. *Building Structures with Young Children*. St. Paul, MN: Redleaf Press, 2004.

Chalufour, I., and K. Worth. *Exploring Water with Young Children*. St. Paul, MN: Redleaf Press, 2005.

DeVries, R., and others. *Developing Constructivist Early Childhood Curriculum: Practical Principles and Activities*. New York: Teachers College Press, 2002.

DeVries R., and C. Sales. C. *Ramps & Pathways: A Constructivist Approach to Physics with Young Children*. Washington, DC: National Association for the Education of Young Children, 2011.

Gelman, R., and others. *Preschool Pathways to Science: Facilitating Scientific Ways of Thinking, Talking, Doing, and Understanding*. Baltimore, MD: Paul H. Brookes Publishing, 2010.

Life Lab. *Sowing the Seeds of Wonder: Discovering the Garden in Early Childhood Education*. Santa Cruz, CA: Life Lab, 2010. An educator guidebook that provides insight and lessons for educators to help children develop a lifelong connection to the outdoors. A publication of Life Lab, Santa Cruz, California (<http://www.lifelab.org>).

Lind, K. K. *Exploring Science in Early Childhood Education*. 4th ed. Clifton Park, NY: Thompson Delmar Learning, 2005.

Martin, D. J. *Constructing Early Childhood Science*. Albany, NY: Thomson Delmar Learning, 2001.

Pollman, M. J. *Blocks and Beyond: Strengthening Early Math and Science Skills through Spatial Learning*. Baltimore, MD: Paul H. Brookes Publishing, 2010.

Sarquis, M., ed. *Marvelous Moving Things: Early Childhood Science in Motion*. Contributing authors: M. Neises, L. Hogue, and B. Kutsunai. Middletown, OH: Terrific Science Press, 2009.

Worth, K., and S. Grollman. *Worms, Shadows, and Whirlpools: Science in the Early Childhood Classroom*. Portsmouth, NH: Heinemann, 2003.

Web Resources

A Head Start on Science

A collaborative project between the Department of Science Education of California State University, Long Beach, and the Head Start Program of the Long Beach Unified School District. It includes information on training opportunities for teachers, sample activities, and other resources.

<http://www.csulb.edu/~sci4kids/>

Center for Early Education in Science, Technology, Engineering and Mathematics, University of Northern Iowa

Supports early childhood educators in creating hands-on, interactive classroom activities that encourage children to develop and use scientific inquiry processes. The site provides information on teacher workshops, ideas for activities, and games.

<http://www.uni.edu/coe/special-programs/regents-center-early-developmental-education/ceestem>

Children and Nature Network

The Children and Nature network supports people and organizations that work to reconnect children with nature. Includes resources for parents and educators.

<http://www.childrenandnature.org/>

Exploratorium

The museum of science, art, and human perception in San Francisco. The museum's Web site offers plenty of resources,



including hands-on activities, online exhibits, articles, videos, and more. <http://www.exploratorium.edu>

The Hawkins Centers of Learning

The Hawkins Room for Messing About with materials and ideas offers contemporary work on topics such as balance and rolling and access to articles and other resources. http://www.hawkinscentersoflearning.org/Contemporary_Work.html

KinderNature

A resource for early childhood educators, including activities, songs, games, an idea bank, book lists, and more. <http://kindernature.storycounty.com>

Life Lab Science Program

Helping schools develop gardens where children can create “living laboratories” for the study of the natural world. It includes valuable educators’ training materials and resources and tips for starting a school garden. <http://www.lifelab.org>

Young Children articles on science, a journal of the National Association for the Education of Young Children (NAEYC), access to a list of articles about science in preschool. Search for “science.” <http://www.naeyc.org/yc/search>

NASA Teacher Resource Site

NASA Education homepage. <http://www.nasa.gov/audience/foreducators/index.html>

National Science Teachers Association (NSTA)

The premier organization for science teachers of all grades. The site includes information on professional development, conferences, and institutes. <http://www.nsta.org/>

Nature Explore

A comprehensive program to connect children with nature. The Web site includes information about designing the environment, family activities, teachers’ workshops, and other resources. <http://www.arboday.org/explore>

North American Association for Environmental Education (NAAEE)

The Web site has resources about environmental education programs and initiatives.

<http://www.naaee.net/>

Teachers can also check out EE-link, a resource for exploring environmental education.

<http://www.eelink.net>

Science NetLinks

Lessons, tools, resources, and benchmarks for science education.

<http://www.sciencenetlinks.com>

Sid the Science Kid

The Web site for the PBS TV show “Sid the Science Kid” has a parent/teacher section that includes resources and activities to support children’s learning process of different topics in science.

<http://www.pbs.org/parents/sid/>

U.S. Department of Education, Office of Communications and Outreach. Helping Your Child Learn Science.

Washington, DC: Ed Pubs, 2005. Booklet. This booklet provides parents of children ages three through ten with information, tools, and activities to develop children’s interest in the sciences.

<http://www2.ed.gov/parents/academic/help/science/index.html>