

Science Experiments: A Research Guide

Looking to score an "A" on your science project this year? Look no further than the books and Web sites listed below. Find great ideas and instructions on how to build the best science experiment ever! This guide introduces researchers to some of the basic informational sources on the topic. The terms and phrases listed in the subject headings below can be used to search for more materials in the library's catalog and research databases. If you need further assistance, please ask a librarian.

Books

Ideas for Science Projects by Robert Gardner. New York: F. Watts, 1986. ISBN: 0531102467. Introduces the scientific method through instructions for observations and experiments in biology, physics, astronomy, botany, psychology, and chemistry.

The Complete Handbook of Science Fair Projects by Julianne Blair Bochinski and Judy J. Bochinski-DiBiase. Hoboken, NJ: J. Wiley, 2004. ISBN: 0471460435.

Discusses various aspects of science fair projects including advice on choosing a topic, doing research, developing experiments, organizing data results, and presenting a project to the judges.

Janice VanCleave's Guide to the Best Science Fair Projects by Janice Pratt VanCleave. New York: Wiley, 1997. ISBN: 0471148024.

Learn how to develop a topic from any idea, and find out the best ways to create, assemble, and present projects—including special tips on how to display them. Project ideas from astronomy and biology to chemistry, math, and engineering.

Science Experiments on File. 2 vols. New York: Facts On File, 2000. ISBN: 08160039984.

Provides substantial coverage of subjects in all the scientific disciplines studied in schools, from biology and chemistry to Earth science, physics, and more. Loose-leaf publication includes hundreds of illustrations. Volume 1 contains Earth science, weather, space, and biology; volume 2 contains chemistry and physics.

Science Experiments You Can Eat by Vicki Cobb and Peter J. Lippman. Philadelphia: Lippincott, 1972. ISBN: 0397314876.

Experiments with food demonstrate various scientific principles and produce an edible result. Includes fruit drinks, grape jelly, muffins, chop suey, yogurt, and junket.

Science Projects and Activities by Helen J. Challand and Linda Hoffman Kimball. Chicago: Children's Press, 1985. ISBN: 0516005693.

Gives instructions for science projects and experiments involving an ant colony, a chicken brooder, plant grafting, microphotography, water purification, and other topics.

Super Sensational Science Fair Projects by Michael A. Dispezio and Derek Toye. New York: Sterling, 2003. ISBN: 0806944099.

Includes science fair projects for elementary and junior high school students.

For a list of more books see the science fair organizer located at <http://school.discovery.com/sciencefaircentral/scifairstudio/resources.html>.

Web Sites

Brainpop, Science
www.brainpop.com/science/seeall.wemf

Suggest experiments and provides scientific information that can help support your project.

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