Resources for J.W. Wakeman School Faculty, Students, and Parents in Grades 3-5: Science Fair Experiments

Books in our Destiny Collection

507 B
Barry, Dana M. (2000). *Science fair projects: helping your child create a super science fair project*. Westminster, CA: Teacher Created Materials.
Science Fair Projects provides information on how to successfully prepare children for science fair experiences, with project ideas and work sheets, planning and presentation activities, and sample investigations based on the traditional problem-solving model.

507.8 GAR
Gardner, Robert. (1992). *Robert Gardner's favorite science experiments*. New York: F. Watts.
Robert Gardner's Favorite Science Experiments provides information on science experiments, mostly using materials found in the home, demonstrating principles of chemistry, mechanics, biology, light, astronomy, heat, and electricity.

533 G
Gardner, Robert. (1997). *Science project ideas about air*. Berkeley Heights, N.J.: Enslow.
Science Project Ideas about Air presents experiments that reveal the properties of air, with special attention to those that would make good science fair projects.

600 K
Kerrod, Robin. (2002). *The way science works. 1st American Ed*. New York: Dorling Kinderley.
The Way Science Works is a photographic guide to science, providing explanations of over sixty scientific concepts related to matter, atoms and elements, forces and energy, heat and sound, light and color, and electricity and magnetism, and including instructions for related experiments.

R 503
The Kingfisher science encyclopedia. (2000). New York: Kingfisher.
The Kingfisher Science Encyclopedia is an illustrated science encyclopedia arranged in such categories as "Planet Earth," "Living Things," "Chemistry and the Elements," "Materials and Technology," "Space and Time," and "Conservation and the Environment."

507 L
Levine, Shar. (2000). *Quick-but-great science fair projects*. New York: Sterling.
Quick-But-Great Science Fair Projects provides information on the basics of science fair projects and suggestions for a variety of projects using easily obtainable materials.

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507.8 V

VanCleave, Janice Pratt. (2000). Janice VanCleave's guide to more of the best science fair projects. New York: J. Wiley.

Janice VanCleave's Guide to More of the Best Science Fair Projects contains step-by-step instructions for fifty science fair projects, grouped in the categories of astronomy, biology, Earth science, engineering, physical science, and mathematics; and includes tips on researching and displaying projects.

551.5 V

VanCleave, Janice Pratt. (1995). *Janice VanCleave's weather: mind-boggling experiments you can turn into science fair projects*. New York: John Wiley.

Janice VanCleave's Weather: Mind-Boggling Experiments You Can Turn into Science fair Projects contains text and pictures that explain weather concepts and give step-by-step instructions for conducting experiments such as making a barometer, measuring wind speed, and recreating the greenhouse effect.

PRO 507.8 WEE

Wee, Patricia Hachten. (1998). *Science fair projects for elementary schools: step by step*. Lanham, Md.: Scarecrow Press.

Science Fair Projects for Elementary Schools: Step by Step contains step-by-step instructions for a variety of science fair projects suitable for students in grades two through five.

<u>Additional Books</u>

Mills, J. (2010). *The everything kids' easy science experiments book: Explore the world of science through quick and fun experiments*. Avon, Mass.: Adams Media.

The Everything Kids' Easy Science Experiments Book shows you that all you need to do is gather a few household items and you can recreate dozens of mind-blowing, kid-tested science experiments from biology to chemistry to physics to outer space.

Rosner, M., & American, I. (2000). *Scientific American great science fair projects*. New York: Wiley.

Scientific American Great Science Fair Projects shows that each experiment can be done with ordinary materials found around the house or that are easily available at low cost and you'll find endless hours of scientific fun in this one-of-a-kind project book.

Time for kids big book of science experiments. (2011). New York: Time for Kids Books.

Big Book of Science Experiments has clear and colorful step-by-step directions accompany each experiment. Additional background information and fun facts for each experiment lets kids know how it affects them and their world, explains the science behind what they've just done, and gives concrete extensions and ways to learn more about each subject.

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Websites

http://www.education.com/science-fair/
Education.com has assembled a vast collection of science fair project ideas written by science teachers, professional scientists, and educational consultants on popular science fair topics ranging from physics and chemistry to biology and even sociology. We offer free science fair ideas suitable for every grade level, be it preschool, kindergarten, elementary school, middle school, or high school.

http://www.factmonster.com/cig/science-fair-projects/understanding-using-scientific-method.html
Fact Monster is an ideal reference site for kids ages 8-14 that provides entertainment and educational resources. It combines the contents of an encyclopedia, a dictionary, an atlas, and several almanacs loaded with statistics, facts, and historical records. A single search engine allows you to search all these sources at once.

http://www.intel.com/content/www/us/en/education/competitions/international-science-and-engineering-fair.html
Intel International Science and Engineering Fair. Each year, approximately 7 million high school students around the globe develop original research projects and present their work at local science competitions with the hope of making it to the Intel International Science and Engineering Fair, a program of Society for Science & the Public. Only the best and brightest—nearly 1,800 winners of local, regional, state, and national competitions—are invited to participate in this week-long celebration of science, technology, engineering, and math. At the event, these young innovators share ideas, showcase cutting-edge research, and compete for more than USD 5 million in awards and scholarships.

http://www.ipl.org/
Ipl.org is a public service organization and a learning/teaching environment. Thousands of students and volunteer library and information science professionals have been involved in answering reference questions for our Ask an ipl2 Librarian service and in designing, building, creating and maintaining the ipl2's collections.

https://www.facebook.com/TheJerseyJournalsHudsonCountyScienceFair
The Jersey Journal's Hudson County Science Fair showcases the work of elementary and high school students from throughout the county. The top two winners go on to the prestigious Intel International Science and Engineering Fair.

http://kids.usa.gov/science/
Kids.gov is the official kids' portal for the U.S. government. We link kids, parents and teachers to U.S. government information and services on the web from government agencies, schools, and educational organizations, all geared to the learning level and interest of kids.

http://www.nsta.org/
The National Science Teachers Association (NSTA) is the largest organization in the world committed to promoting excellence and innovation in science teaching and learning for all. NSTA's current

membership of 55,000 includes science teachers, science supervisors, administrators, scientists, business and industry representatives, and others involved in and committed to science education.

http://www.sciencebuddies.org/
Sciencebuddies.org is a non-profit site that empowers K-12 students, parents, and teachers to quickly and easily find free project ideas and help in all areas of science from physics to food science and music to microbiology.

http://www.sciencekids.co.nz/
The aim of Science Kids is to provide educational resources for teachers and parents that help make science fun and engaging for kids, taking important concepts and putting them into a form that kids can not only understand but also enjoy.