

## Science Fair Resources

**Science Project Ideas** are truly endless! Choose something that really interests you. Here are a few examples:

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| <ul style="list-style-type: none"><li>• How Does the Heart Work?</li><li>• Hovercrafts</li><li>• Hydro Electric Dam</li><li>• How Do Bike Shocks Work?</li><li>• Fishing Line Strength</li><li>• Do Bridges Stay Up?</li><li>• Fingerprints - What Do They Tell Us?</li><li>• How Do Braces Work?</li><li>• How Do You Make Paper?</li><li>• How is a Photograph Made?</li><li>• Wolf Communication</li><li>• What Do Seeds Need to Grow?</li><li>• Making Colours</li><li>• How Alligators Swim</li><li>• What is Inside a Telephone?</li><li>• Laughter is Good Medicine</li><li>• Simple Motor</li><li>• Hummingbirds</li><li>• How Butterflies Protect Themselves</li></ul> | <ul style="list-style-type: none"><li>• How is Honey Made?</li><li>• Why Do Things Fizz?</li><li>• Lasers</li><li>• Quick Rust</li><li>• What Is The Eye of the Hurricane?</li><li>• How Do Planes Fly?</li><li>• Do Animals Talk?</li><li>• Uses of Water</li><li>• Patterns in Nature</li><li>• Use of Our Teeth</li><li>• Recycling</li><li>• Vaccines</li><li>• Animal Homes</li><li>• The Life of a Tree</li><li>• Musical Instruments</li><li>• A Healthy Meal</li><li>• Sound</li><li>• Whales</li><li>• Parts of a Building</li><li>• Animal Colourings</li><li>• Our Eyes and How We See</li><li>• The Four Seasons</li><li>• Viruses</li></ul> | <ul style="list-style-type: none"><li>• Where do Beavers Live?</li><li>• Good or Bad Insects</li><li>• Whistles and Flutes</li><li>• Why are Zebras Striped?</li><li>• Metals That Conduct Heat</li><li>• The Human Heart</li><li>• How Does a Tooth Decay?</li><li>• How do Greenhouses Work?</li><li>• Filtering Water</li><li>• What is the Best Wing Design?</li><li>• Kites</li><li>• Tropical Fish</li><li>• Fresh Water Fish</li><li>• Algae</li><li>• How Strong is a Spider's Web?</li><li>• What Affects the Strength of Concrete?</li><li>• Build a Hygrometer</li><li>• Build a Clock</li><li>• Are Manufacturer's Claims Truthful?</li><li>• What is Physical</li></ul> |
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| <ul style="list-style-type: none"> <li>• How is Butter Made?</li> <li>• Solar Energy</li> <li>• Will the Titanic Rot Away?</li> <li>• How do Animals Talk to Each Other?</li> <li>• Icebergs and How They Form</li> <li>• Lunar Eclipse</li> <li>• What Causes a Volcano to Erupt?</li> <li>• The Digestive System</li> <li>• How Does Frost Form?</li> </ul> | <ul style="list-style-type: none"> <li>• Predicting Weather</li> <li>• How Computers Are Used</li> <li>• Making Batteries</li> <li>• Canada's Natural Resources</li> <li>• What is Inside Fruit?</li> <li>• Parts of a Leaf</li> <li>• Prehistoric Animals</li> <li>• Melting Rates of Ice</li> <li>• Your Backyard Ecosystem</li> </ul> | <p>Fitness?</p> <ul style="list-style-type: none"> <li>• How Does a Wind Turbine Work?</li> <li>• What is Protein?</li> <li>• Wind Chill</li> <li>• World Population</li> <li>• Calendars and Time – Why do we have leap years??</li> <li>• Nests</li> <li>• Reptiles</li> <li>• Gravity</li> </ul> |
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***Your Original Idea Here...***

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The **Public Libraries** also stock a great selection of books on science fair projects and science in general! For example:

Kramer, Stephen P. *How to Think Like a Scientist: Answering Questions by the Scientific Method*. New York: Thomas Y. Crowell, 1987. (Grades 2-4)

Caney, Steven. *Steven Caney's Invention Book*. New York: Workman Publishing Co., 1985.

Dunn, Susan and Rob Larson. *Design Technology: Children's Engineering*. Falmer Press, 1990.(Grade K-6)

Eichelberger, Barbara and Connie Larson. *Constructions for Children: Projects in Design Technology*. Available from Dale Seymour Publications. (Grades 1-4)

Jones, Foltz Charlotte. *Mistakes That Worked: 40 Familiar Inventions and How They Came to Be*. New York: Doubleday, 1991.

Karnes, Francis, Suzanne H. Bean, and Rose Mary Wallner. *Girls and Young Women Inventing: Twenty True Stories About Inventors Plus How You Can Be One Yourself*. Free Spirit, 1995. (Grades 3-6)

Kramer, Stephen P. *How to Think Like a Scientist: Answering Questions by the Scientific Method*. New York: Thomas Y. Crowell, 1987. (Grades 2-4)

McCormack, Alan J. *Inventor's Workshop*. Belmont, CA: Pitman Learning, Inc. 1981. (Grades 2-6)

McKissack, Pat and Frederick L. McKissack. *African-American Inventors*. Millbrook Press, 1994. (Grades 4-7)

Rasmussen, Greta. *WakerUppers: A Spirited Collection of Thinking Activities*. Available from Dale Seymour Publications. (Grades 2-6)

Rowland, Dr. Elizabeth and Dr. Leonard Molotsky. *Resource of Creative and Inventive Activities*. Richardson, TX: National Inventive Thinking Association, 1994. (For teachers)

Sobey, Ed. *Inventing Stuff*. Available from Dale Seymour Publications. (Grades 5 and up)

Stanish, Bob. *The Unconventional Invention Book*. Carthage, IL: Good Apple, Inc., 1981.

Striker, Susan. *Build a Better Mousetrap*. New York: Holt, Rinehart & Winston, 1983.

Taylor, Barbara. *Be an Inventor*. New York: Harcourt Brace, 1987. (Grades 3 and up)

Tucker, Tom and Richard Loehle. *Brainstorm: The Stories of Twenty American Kid Inventors*. Farrar Straus & Giroux, 1995. (Grades 4-7)

Yenne, Bill. *100 Inventions That Shaped World History*. Bluewood Books, 1993. (Grades 3-6)

#### **Websites:**

<http://www.bkfk.com/>

<http://web.mit.edu/afs/athena.mit.edu/org/i/invent/>

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

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

And lots more!

#### **Over Forty Science Based Links**

Ideas, methods, tips, help, and more... just a few clicks away!! Sorted *alphabetically* – there are some cool ones near the end too!

<http://www.ag.ohio-state.edu/~breads/sciencefair.html>

Bread-Related Science Fair Topics

<http://www.agclassroom.org/kids/science.htm>

Agriculture In The Classroom - Science Projects

<http://www.all-science-fair-projects.com/>

Science Fair Projects With Complete Instructions

<http://www.amasci.com/scifair/chem.html>

Science Fair Idea Exchange - Chemistry Science Projects

<http://www.ummz.lsa.umich.edu/>

University of Michigan - Museum of Zoology

<http://www.billnye.com/for-kids-teachers/>

Bill Nye, the Science Guy

<http://www.britannica.com/>

Encyclopædia Britannica Online - Free 7-day trial

<http://cms.math.ca/Education/mpsf/>

Canadian Mathematical Society  
- Math Projects for Science Fairs

<http://www.cdli.ca/sciencefairs/>

Eastern Newfoundland Science Fairs Council

<http://www.energyquest.ca.gov/projects/>

California Energy Commission - Energy education website

<http://www.eskimo.com/~billb/index.html>

Science Hobbyist Website

<http://www.exploratorium.edu/>

Exploratorium - The museum of science, art and human perception

[http://www.exploratorium.edu/science\\_explorer/index.html](http://www.exploratorium.edu/science_explorer/index.html)

Exploratorium - Science Explorer activities

<http://www.exploratorium.edu/snacks/>

Snacks... the kind you can learn from and have fun with

<http://faculty.washington.edu/chudler/experi.html>

Neuroscience Experiments...

<http://faculty.washington.edu/chudler/fair.html>

Tips for a successful science fair project...

<http://faculty.washington.edu/chudler/neurok.html>

Learn about the nervous system

<http://www.fi.edu/tfi/activity/>

Bioscience, Communications, Computers, Earth Science, Energy,  
Mathematics, Oceanography, Physical Sciences, Space, Transportation

<http://www.funology.com/>

...find things to do, anywhere, by yourself or with anyone

<http://www.hobbyscience.com>

Projects for Kids... a collection of fun  
and easy science and craft projects

<http://www.homeworkspot.com/sciencefair/>

Science Fair Project Central...

<http://www.howstuffworks.com/>

HowStuffWorks... credible, unbiased,  
and easy-to-understand explanations

<http://www.juliantrubin.com/fairguide.html>

Your Guide to Science Fair Projects

<http://www.juliantrubin.com/sciencefairprojectsaz.html>

Projects and Experiments Topics - Index A-Z

<http://www.letstalkscience.ca/>

Let's Talk Science - Check out the "Hands on Activities" or "Families" sections

<http://littleshop.physics.colostate.edu/onlineexperiments.htm>

Colorado State University - Experiments  
you can do right now, right where you are...

<http://www.madsci.org/experiments/>

Edible/Inedible Experiments Archive

<http://www.madsci.org/libs/libs.html>

MadSci Library, an excellent starting point  
for exploring science resources

<http://members.ozemail.com.au/~macinnis/scifun/projects.htm>

Science fair projects

<http://www.neiu.edu/~pidolan/chemistry.htm>

Chemistry - Science Fair Project Ideas

<http://www.pbskids.org/dragonflytv/>

PBS Public Television – DragonflyTV

<http://www.sciencebob.com/>

The Adventures of Science Bob

<http://www.sciencebuddies.org/mentoring/science-projects.shtml>

Doing a Science Project?  
- It's time to start planning!!

<http://www.scienceclub.org/kidlink1.html>

The Science Club - Kids' Do-It-Yourself Science

<http://www.scienceclub.org/kidproj1.html>

Science Projects - [SIMPLE](#) for beginners;  
[MEDIUM](#); [ADVANCED](#) for high school

<http://www.scienceclub.org/~sciclub/cgi-bin/scifair/hint.html>

Doing Real Science - How To Run A Science Fair Project...

<http://www.scienceadesimple.com>

Easy science experiments & science project ideas

<http://sciencenet.tpl.toronto.on.ca/>

Toronto Public Library – Science.Net search portal

<http://www.scitoys.com/>

Science Toys You Can Make

<http://school.discoveryeducation.com/sciencefaircentral/>

Discovery Channel/School –Science Fair Central

<http://www.spartechsoftware.com/reeko/>

Reeko's Mad Scientist Lab - Science

projects and experiments for all ages

[http://www.tryscience.org/experiments/experiments\\_home.html](http://www.tryscience.org/experiments/experiments_home.html)

TryScience and over 400 science centers worldwide

invite you to investigate, discover, and try science yourself

[http://www.usc.edu/CSSF/Resources/Good\\_Project.html](http://www.usc.edu/CSSF/Resources/Good_Project.html)

What Makes a Good Science Fair Project...

**NOTE:**

*All links verified 2012December05; for informational purposes, content not screened or endorsed by Meadowlane Public School.*