

RESOURCES with Hotlinks

ISEF

[collection of videos](#) highlighting the research projects of past Intel ISEF Finalists

[The Archimedes Initiative](#) - An effort formed to promote science literacy and increase the number of scientists and engineers in the United States, which includes videos of Intel ISEF Finalists

[Tips and Advice](#)

Alumni share their experiences and guidance about many facets of completing a project

[Searchable Intel ISEF Finalist Abstracts \(2003 - Present\)](#)

This searchable database of abstracts provides a powerful resource to help with project ideas and as perhaps a first step in a literature search. Abstracts are searchable by key word, discipline, finalist name, fair id, state or country.

[Science Buddies](#)

Science Buddies is a non-profit organization encouraging students to "improve their science skills" and "consider additional study or careers in science." It's also my pick-of-the-day site because of the Topic Selection Wizard, and the general excellence of all the guidance provided. Choosing a topic is often the most agonizing part of starting a science fair project. Use the wizard to guide you toward a topic that interests you. Be warned, however, you'll have to answer a lot of questions to work your way through the wizard. Other great clicks are the list of bad science fair topics in the "How To" section, and the "Ask an Expert" online forum.

[Science Fair Central](#)

Although there's lots of fun science stuff to peruse here, you'll find the meat of the matter in the [Soup](#) to Nuts Handbook written by Janice Van Cleve, author of more than forty books on science and science fairs. "A science project is like a mystery in which you are the detective searching for answers. Science projects let you practice and exhibit your detective skills. You not only get to select which mystery to solve, but you can creatively design methods for uncovering clues that will lead to the final revelation of who, what, when, where, how, and why." [Science Fair Central](#) includes cool project ideas, a science fair handbook, reviews of students' experiments, and more from Discovery Channel School. [Full Review »](#)

[All Science Fair Projects](#)

From astronomy to zoology, All Science Fair Projects is a searchable database of 500 science fair ideas for all levels (elementary, middle and high school.) You can search by keyword (such as "bacteria" or "sun spots.") Or browse by topic (biology, chemistry, physics, earth science and engineering.) Each individual project page then links to an sample project elsewhere on the Web.

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[How to Find Original Science Fair Project Ideas](#)

Do you want to come up with a truly original science fair project that is all your own and not one out of a book or used by another student? Here's advice that may help stimulate your creativity.

[Science Fair Project Idea List - All Science Subjects](#)

These project ideas provide information and questions you can develop into a science fair project. Bookmark this page or check back regularly, since new ideas are added.

[How to Select a Science Fair Project Topic](#)

The hardest part of doing a science fair project is narrowing down the choices and picking a topic for your project or experiment. Here's some advice on where to start and how to recognize a good idea.

[What Makes a Good Science Fair Project?](#)

"Students are advised that getting the right answer is NOT the purpose of a science fair project. It is the intent of a science fair project that you go through the process of asking questions and performing experiments in an attempt to find answers. Making the attempt without answering the question still satisfies the intent of your discovering knowledge on your own."

[Science Project Guidelines](#) for using animals or people

[Actually Doing Your Project](#)

[Science Fair Project](#)

[Science Fair Studio](#)

[What Is a Science Fair Project?](#)

You may have to do a science fair project or help with one, but might be unclear what exactly one is. Here's an introduction to science fair projects that should help clear up any confusion.

[Science Fair Basics](#)

[Steps of a Science Fair Project](#)

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[Why Do a Science Fair Project?](#)

There are excellent reasons why you would want to do a science fair project, even if it isn't for a grade.

[Types of Science Fair Projects](#)

Learn about the five types of science fair projects, then decide which is right for you.

[Science Fair Project Help](#)

It's nice to have a one-page reference for project ideas, sample experiments, report and display help, and places you can go with questions. In addition to the e-course, you may want to bookmark this science fair project [index page](#) for handy reference.

[Science Fair Project Quiz](#)

Think you understand? Test yourself with this quick multiple choice quiz!

[Science Fair Project Pictures - Free Images](#)

This is a collection of free (public domain) pictures that you can use for your science fair project. You are free to download these images and print them. Please cite the source of the picture.

[Chemistry Science Fair Project Ideas](#)

Find ideas for chemistry science fair projects. The experiments and projects are categorized according to topic and age group so you can find the chemistry science fair project that is perfect for you.

[Winning Science Fair Projects](#)

Free e-course! Design a winning science fair project then carry out the project with a great presentation and display. When you sign up for this free 3-day e-course, you'll get ideas to help decide on a project idea, insight into judging, and tips for a successful presentation and display.

[Science Fair Project Help](#)

Science fair projects are a great way to learn about experimentation, the scientific method, and science concepts. However, it can be hard to find an idea or get answers to questions once you get started. Here is a collection of resources to give your project the winning edge.

[Science Fair Project Quiz](#)

Get information about what makes a good science fair project, then test your understanding with this multiple choice quiz.

[Middle School Science Fair Projects](#)

Find ideas for middle school science fair projects. These are projects suitable for the 6-8 grade level.

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[High School Science Fair Projects](#)

Get ideas for great high school science projects. These are projects targeted from the 9-12 grade educational level.

[College Science Fair Projects](#)

Get ideas for science fair projects suitable for college level students. Most of these projects are targeted for the freshman year.

[How to Do a Science Fair Project](#)

You've got the perfect science fair project idea, so now it's time to actually do the project. Here's how to turn your idea into an experiment with a hypothesis. After you design an experiment, it's time to start collecting data.

[How to Write a Science Fair Project Report](#)

Your science fair project may require a lab report or essay. Here's how to prepare a report to document your research.

[Make a Science Fair Poster or Display](#)

Your science fair poster or display will present your project to the rest of the world and possibly to teachers and judges. Here's what you need to know to make your poster a success.

[Science Fair Project Guidelines](#)

You need to consider your school's rules and regulations when you are deciding on a science fair project topic. Experiments involving people, animals, chemicals, laser, radiation, or controlled substances may be subject to review.

[Science Fair Project Poster](#)

Here's an example of how you can organize a science fair project poster to clearly display your use of the scientific method for your project.

[Chemistry Science Fair Project Ideas](#)

Stimulate your own ideas for a chemistry science fair project by looking at examples of chemistry projects other students have performed.

[Top Science Fair Project Books](#)

This is a collection of top-rated science fair project resources for students, parents, and educators. There are books that describe experiments, a CD-ROM packed with thousands of pages of ideas, and reference materials for making posters, giving presentations, and understanding the judging process.

[The Scientific Method](#)

Science fair and research projects apply the scientific method. Here's an informal explanation of the scientific method and how it is used.

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[10th Grade Science Fair Projects](#)

Find an idea for a 10th grade science fair project or a science project targeted at the high school education level.

[9th Grade Science Fair Projects](#)

Find an idea for a 9th grade science fair project or entry level high school project.

[8th Grade Science Fair Projects](#)

Get ideas for 8th grade science fair projects. These are experiments and topics suitable for upper middle school level science fair projects.

[7th Grade Science Fair Projects](#)

Find an idea for a 7th grade science fair project or a science project targeted at the intermediate middle school level.

[6th Grade Science Fair Projects](#)

Get ideas for 6th grade science fair projects. These are topics and experiments suitable for upper grade school or entry level into middle school.

[How to Write a Bibliography for a Science Fair Project](#)

Learn how to cite your sources for a science fair project. See examples for books, online references, and conversations.

[Engineering Science Fair Projects](#)

Engineering science fair projects can involve designing, building, analyzing, modeling or improving a device. You can also test or create materials. Here are some specific ideas of engineering science fair project ideas.

[Environmental Science Fair Projects](#)

Are you interested in doing a science fair project that involves the environment, ecology, pollution, or other environmental issues? Here are some science fair project ideas that involve environmental science.

[Food and Cooking Chemistry - Science Fair Project Ideas](#)

These are ideas for science fair projects that involve food or cooking chemistry. Links are provided for additional science fair project help and food chemistry information.

[Growing Crystals - Science Fair Project Ideas](#)

Are you looking for a fun science fair project idea? Here are some ways you can turn crystal growing into a research project. There are links to instructions for growing different types of crystals and for designing a great science fair project, too.

[Household Product Testing - Science Fair Project Ideas](#)

Science doesn't have to be expensive and it doesn't require specialized lab equipment! These are ideas for science fair projects that involve testing or comparing common household products.

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Magnetism Science Fair Projects

Do you like magnets? Science fair projects can examine magnetism or electromagnets. Here are some magnetism science fair project ideas.

Materials Science Fair Projects

Materials science involves physical science and engineering. Science fair projects can invent new materials, improve existing materials, test the properties of materials, or compare the suitability of different materials for a specific purpose. Here's a look at some science fair project ideas in this field of research.

Plant and Soil Chemistry - Science Fair Project Ideas

Here are some science fair project ideas that involve plants and soil chemistry. Are you looking for an environmental science project? Check here!

Sports Science Fair Project Ideas

There is a lot of science involved in sports. Combine your love of sports with science to come up with the perfect science fair project.

Successful Science Fair Projects

Get help finding a subject, preparing a hypothesis, writing the report, and making a presentation for a science fair project. This guide is suitable for grade school through university level.

BOOKS:

Strategies for Winning Science Fair Projects

Joyce Henderson and Heather Tomasello co-wrote this 128 page science fair project resource, packed with strategies and tips for choosing a project, using the scientific method, preparing a poster and presentation, dealing with nervousness and judges, and more.

Scientific American's "The Amateur Scientist"

Shawn Carlson and Sheldon Greaves have collated the materials for this 2600 page CD-ROM. This CD has more information that you would find in any traditional book, with sophisticated projects and a search engine to help you find them. It's affordable enough for parents/students and a definite must-have for libraries and teachers.

The Complete Handbook of Science Fair Projects

Julianne Bochinski's 240 page book is targeted for grades 7-12. This book presents project ideas as well as a wealth of information about project presentation and judging. This is more of a reference book for teachers and libraries than a book students will sit down with to read for themselves. It's an excellent overall guidebook for science fair projects.

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[Science Fair Success with Plants](#)

Twenty five detailed experiments with plants are outlined in this book. Included with each experiment are procedures, suggested materials, safety instructions and more.

[Environmental Science: High School Science Fair Experiments](#)

If you are interested in environmental science projects this book offers a great collection of winning project ideas. It provides background information and suggests ways projects can be personalized.

[Botany: High-School Science Fair Experiments](#)

Twenty good high-school botany projects are presented in this book. Included are experiments relating to plants and environmental science, introductory information on botany and a list of materials needed for suggested projects.