

9th grade science fair project ideas

9th Grade Science Fair Project Ideas: A Comprehensive Guide

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Publisher: Science Fair Central, a leading online resource for students and educators dedicated to providing high-quality information and support for science fair projects. Science Fair Central is known for its accurate, up-to-date, and rigorously fact-checked content.

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I. Introduction: Choosing the Right 9th Grade Science Fair Project Ideas

Selecting a compelling and manageable science fair project is crucial for 9th-grade students. This guide provides a wealth of 9th grade science fair project ideas categorized by scientific discipline, offering insights into the research process, data collection, and presentation. Successful 9th grade science fair project ideas stem from a student's genuine interest and a manageable scope. The key is finding a project that balances challenge with feasibility within the time constraints of a typical school term.

II. Categorizing 9th Grade Science Fair Project Ideas

A. Biology:

The Effects of Different Light Sources on Plant Growth: This classic experiment allows students to explore the impact of various light types (e.g., incandescent, fluorescent, LED) on plant growth parameters like height, leaf area, and overall biomass. Data can be collected through regular measurements and photographic documentation. Research can focus on the specific wavelengths of light and their effects on photosynthesis. This is a great example of a 9th grade science fair project idea that is both easy to understand and visually appealing.

Investigating the Effects of Pollution on Seed Germination: Students can examine how different pollutants (e.g., oil, fertilizer runoff) affect the germination rates and growth of various seeds. This 9th grade science fair project idea highlights environmental issues and demonstrates the importance of environmental conservation. Data analysis would involve comparing germination rates and growth across different pollution levels.

Microbial Growth in Different Environments: This project involves culturing microorganisms from various environments (e.g., soil, water, air) and comparing their growth rates under different conditions (temperature, pH). Students can learn about aseptic techniques and microbial diversity. This 9th grade science fair project idea requires careful attention to safety protocols.

B. Chemistry:

The Effect of Temperature on Reaction Rate: This experiment explores the relationship between temperature and the speed of a chemical reaction. Students can use readily available materials and easily measure reaction times. Data analysis would involve graphing reaction rates against temperature to demonstrate the effect. This is a strong 9th grade science fair project idea for students interested in chemical kinetics.

Crystallization of Different Salts: This project involves growing crystals from various salt solutions, allowing students to compare crystal structures and growth rates under different conditions. Microscopic observation and photographic documentation are crucial. This 9th grade science fair project idea offers a visually appealing outcome and introduces the concept of crystallography.

Acid-Base Titration: This project introduces the fundamentals of acid-base chemistry through titration experiments. Students learn to use precise measurement techniques and analyze data to determine the concentration of an unknown solution. This 9th grade science fair project idea strengthens analytical skills.

C. Physics:

The Effect of Mass on Pendulum Period: This classic experiment explores the relationship between the mass of a pendulum bob and its period. Students can easily construct pendulums and measure the period using a stopwatch. Data analysis focuses on determining if mass affects the period of a pendulum. This is a straightforward 9th grade science fair project idea that demonstrates fundamental physics principles.

Investigating the Efficiency of Different Types of Machines: This project allows students to compare the mechanical advantage and efficiency of various simple machines (e.g., levers, pulleys, inclined planes). This 9th grade science fair project idea provides hands-on experience with mechanical principles and engineering concepts.

Building a Simple Electric Circuit: Students can design and build simple circuits using batteries, wires, and light bulbs, exploring the principles of electricity and circuit design. This 9th grade science fair project idea reinforces fundamental electrical concepts.

D. Earth Science:

Erosion and Weathering: Students can build models to simulate the effects of erosion and weathering on different types of soil or rock. This 9th grade science fair project idea emphasizes understanding

geological processes and environmental changes. Data can be collected through measuring changes in soil or rock structure over time.

Water Quality Analysis: Students can test the water quality of local sources (e.g., rivers, lakes) using readily available test kits. This 9th grade science fair project idea highlights environmental monitoring and addresses water pollution issues. Data should include pH, dissolved oxygen, and other relevant parameters.

III. Conducting the Research and Analyzing Data

After choosing a 9th grade science fair project idea, meticulous planning is crucial. This involves:

1. **Formulating a Testable Hypothesis:** Clearly state the expected outcome of the experiment.
2. **Designing a Controlled Experiment:** Identify independent and dependent variables, keeping other factors constant.
3. **Collecting Data Accurately:** Use appropriate tools and techniques for data collection, ensuring repeatability.
4. **Analyzing Data Effectively:** Use graphs, charts, and statistical analysis to interpret the data.
5. **Drawing Conclusions:** Based on data analysis, determine if the hypothesis is supported or refuted.

IV. Presenting the 9th Grade Science Fair Project

The presentation is critical. A well-organized presentation with clear visuals significantly improves the impact of the project. This includes:

1. **Creating a Tri-fold Display Board:** Organize the board logically, including an abstract, hypothesis, procedure, data, analysis, and conclusion.
2. **Preparing a Scientific Report:** Write a detailed report outlining the entire process, from hypothesis to conclusion.
3. **Practicing the Presentation:** Rehearse your presentation to ensure clarity and confidence.

V. Conclusion

Choosing the right 9th grade science fair project ideas requires careful consideration of student interest, feasibility, and available resources. By following the steps outlined in this guide, students can create a compelling project that showcases their scientific skills and understanding. Remember, the

focus should be on the scientific method and learning, not just winning an award. The process of conducting research, analyzing data, and presenting findings is invaluable for developing critical thinking and problem-solving skills – essential aspects of a successful 9th-grade science education.

FAQs

1. What if my 9th grade science fair project idea is too complex? Simplify it! Break down complex projects into smaller, manageable parts. Focus on a specific aspect of the larger topic.
1. How much time should I dedicate to my 9th grade science fair project? Start early! Dedicate consistent time throughout the project timeline, rather than cramming at the last minute.
1. What resources are available for 9th grade science fair project ideas? Your school library, online databases (like Science Fair Central), and your science teacher are great resources.
1. How do I choose the best 9th grade science fair project idea for me? Consider your interests and strengths. Pick a topic that genuinely excites you.
1. What if my hypothesis is not supported by the data? This is perfectly acceptable! Scientific research often leads to unexpected results. Analyze your data and explain why your hypothesis may not have been supported.
1. How important is the presentation of my 9th grade science fair project? It's very important! A well-presented project communicates your findings effectively and showcases your understanding.
1. What are some common mistakes to avoid in my 9th grade science fair project? Avoid plagiarism, sloppy data collection, and poor organization.
1. Where can I find examples of successful 9th grade science fair projects? Look online for examples and presentations from past science fairs. Many schools and organizations share

successful projects.

1. Can I work with a partner on my 9th grade science fair project? Check your school's guidelines; many schools allow or even encourage group projects.

Related Articles:

1. "Top 10 Easy Science Fair Projects for 9th Graders": This article focuses on straightforward experiments requiring minimal materials and expertise.
1. "Innovative Biology Experiments for 9th Grade Science Fairs": This article presents advanced biological projects requiring deeper understanding and more sophisticated equipment.
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1. "The Ultimate Guide to Designing a Winning Science Fair Project": This comprehensive guide covers all aspects of project design, from initial brainstorming to final presentation.
1. "Data Analysis for 9th Grade Science Fair Projects: A Step-by-Step Guide": This article explains data analysis techniques relevant to 9th-grade science fair experiments.

1. "Creating a Professional Science Fair Display Board: Tips and Tricks": This article provides guidance on creating a visually appealing and informative display board.

1. "How to Write a Winning Science Fair Report": This article provides detailed instructions for writing a well-structured and informative scientific report.

9th grade science fair project ideas: Bartholomew and the Oobleck Dr. Seuss, 1949-10-12 Join Bartholomew Cubbins in Dr. Seuss's Caldecott Honor-winning picture book about a king's magical mishap! Bored with rain, sunshine, fog, and snow, King Derwin of Didd summons his royal magicians to create something new and exciting to fall from the sky. What he gets is a storm of sticky green goo called Oobleck—which soon wreaks havoc all over his kingdom! But with the assistance of the wise page boy Bartholomew, the king (along with young readers) learns that the simplest words can sometimes solve the stickiest problems.

9th grade science fair project ideas: TheDadLab Sergei Urban, 2019-05-14 The ultimate collection of DIY activities to do with your kids to teach STEM basics and beyond, from a wildly popular online dad. With more than 3 million fans, TheDadLab has become an online sensation, with weekly videos of fun and easy science experiments that parents can do with their kids. These simple projects use materials found around the house, making it easier than ever for busy moms and dads to not only spend more quality time with their children but also get them interested in science and technology. In this mind-blowing book, Sergei Urban takes the challenge off-screen with fifty step-by-step projects, including some that he has never shared online before. Each activity will go beyond the videos, featuring detailed explanations to simplify scientific concepts for parents and help answer the hows and whys of their curious children. Learn how to: explore new fun ways to paint; make slime with only two ingredients; defy gravity with a ping-pong ball; produce your own electricity, and more! With TheDadLab, parents everywhere will have an easy solution to the dreaded I'm bored complaint right at their fingertips!

9th grade science fair project ideas: 101 Great Science Experiments Neil Ardley, 2014-12-15 Forget about mad scientists and messy laboratories! This incredible, interactive guide for children showcases 101 absolutely awesome experiments you can do at home. Find out how to make a rainbow, build a buzzer, see sound, construct a circuit, bend light, play with shadows, measure the wind, weigh air, and create an underwater volcano. The astonishing variety of experiments are all very easy and entirely safe, with step-by-step text and everyday ingredients. Biology, chemistry, and physics are brought to life, showing budding young scientists that science is all around us all the time. As you have fun trying out experiments with friends and family, core scientific principles are presented in the most memorable way. With chapters covering important topics such as color, magnets, light, senses, electricity, and motion, the laws of science are introduced in crystal-clear text alongside specially commissioned full-color photography for children to understand. Follow in the footsteps of Albert Einstein, Marie Curie, and all the other great minds with 101 Great Science Experiments and learn the secrets of science you'll never forget.

9th grade science fair project ideas: How to Do a Science Fair Project Salvatore Tocci, 1997 A step-by-step guide for creating a variety of projects suitable for entry in a science fair with suggestions for choosing a subject, performing the experiment, and polishing the presentation.

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seconds! Have you shared it with a child or grandchild in your life? For the first time, Eric Carle's *The Very Hungry Caterpillar* is now available in e-book format, perfect for storytime anywhere. As an added bonus, it includes read-aloud audio of Eric Carle reading his classic story. This fine audio production pairs perfectly with the classic story, and it makes for a fantastic new way to encounter this famous, famished caterpillar.

9th grade science fair project ideas: Physical Science Experiments Aviva Ebner, 2011 Explores the physical sciences through experiments in infrared radiation, heat, and energy.

9th grade science fair project ideas: Candy Experiments Lorelee Leavitt, 2013-01-03 Candy is more than a sugary snack. With candy, you can become a scientific detective. You can test candy for secret ingredients, peel the skin off candy corn, or float an "m" from M&M's. You can spread candy dyes into rainbows, or pour rainbow layers of colored water. You'll learn how to turn candy into crystals, sink marshmallows, float taffy, or send soda spouting skyward. You can even make your own lightning. Candy Experiments teaches kids a new use for their candy. As children try eye-popping experiments, such as growing enormous gummy worms and turning cotton candy into slime, they'll also be learning science. Best of all, they'll willingly pour their candy down the drain. Candy Experiments contains 70 science experiments, 29 of which have never been previously published. Chapter themes include secret ingredients, blow it up, sink and float, squash it, and other fun experiments about color, density, and heat. The book is written for children between the ages of 7 and 10, though older and younger ages will enjoy it as well. Each experiment includes basic explanations of the relevant science, such as how cotton candy sucks up water because of capillary action, how Pixy Stix cool water because of an endothermic reaction, and how gummy worms grow enormous because of the water-entangling properties.

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9th grade science fair project ideas: Drive Daniel H. Pink, 2011-04-05 The New York Times bestseller that gives readers a paradigm-shattering new way to think about motivation from the author of *When: The Scientific Secrets of Perfect Timing* Most people believe that the best way to motivate is with rewards like money—the carrot-and-stick approach. That's a mistake, says Daniel H. Pink (author of *To Sell Is Human: The Surprising Truth About Motivating Others*). In this provocative and persuasive new book, he asserts that the secret to high performance and satisfaction—at work, at school, and at home—is the deeply human need to direct our own lives, to learn and create new things, and to do better by ourselves and our world. Drawing on four decades of scientific research on human motivation, Pink exposes the mismatch between what science knows and what business does—and how that affects every aspect of life. He examines the three elements of true motivation—autonomy, mastery, and purpose—and offers smart and surprising techniques for putting these into action in a unique book that will change how we think and transform how we live.

9th grade science fair project ideas: Drawdown Paul Hawken, 2017-04-18 • New York Times bestseller • The 100 most substantive solutions to reverse global warming, based on meticulous research by leading scientists and policymakers around the world "At this point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope." —Per Espen Stoknes, Author, *What We Think About When We Try Not To Think About Global Warming* "There's been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single,

comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom.” —David Roberts, Vox “This is the ideal environmental sciences textbook—only it is too interesting and inspiring to be called a textbook.” —Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and apathy, an international coalition of researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth’s warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an opportunity to create a just and livable world.

9th grade science fair project ideas: Home Run! Science Projects with Baseball and Softball Robert L. Bonnet, Dan Keen, 2009-07-01 Provides several science experiments using physics and baseball or softball--Provided by publisher.

9th grade science fair project ideas: Catapult Loading System Joey Myers, 2018-02-14 My son at 10yo (90-lbs) is highly coach-able. I taught him the system in February and he hit well during the season but could only hit the ball around 180'. Then all of a sudden around June he started killing the ball. He was hitting home runs every game and hit a ball at least 250-feet - Michael Parillo (via email) Sick of struggling to help hitters drive the ball hard with more consistency? Dramatically increase power without sacrificing swing quality. Literally thousands of coaches across the nation are getting predictably positive results with hitters using the CLS system. How? By applying human movement principles validated by REAL science to hitting a ball, and NOT bro-science. THIS STEP-BY-STEP GUIDE TO CONSISTENT POWER TEACHES: How to master a handful of human movement principles, so you can slice the teach hitting learning curve in half. How to effectively load the body, so your hitters can optimize their batted ball distance potential. How elite-hitters are revealing ways to hit balls with High-Exit-Speeds, swing after swing, using three elements a 4-year-old can understand. Why 'loading and exploding the hips' is bad for lower back, and how to teach hitters a highly effective but SAFE swing. THE NEW EXPANDED EDITION INCLUDES: 'How to practice' section at end of each movement principle Chapter. How to train a 2-year-old to hit a moving ball (proof that NOT only elite hitters can be taught these movements). Why pitchers are taught to pitch around ineffective swing paths, and how to turn their weapon against them. Why coaches MUST focus their hitters' efforts on targeting and elevating pitches low in the zone. How to teach timing and get hitters on-time more often in games.

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learning important things about the world around you. Some experiments to master: - Balloon-Powered Car - Burst Soap Clou - CD Hovercraft - Creeping Ink - Bendy Bones - Electromagnet - Paper Helicopters - Unbreakable Bubbles Now put on your lab coat and let's get experimenting!

9th grade science fair project ideas: Naked Eggs and Flying Potatoes Steve Spangler, 2010 Author, celebrity teacher and science guy Steve Spangler teaches you how to transform the ordinary into the amazing as you make everyday items ooze, bubble, fizz, pop. Make people wonder . . . How did you do that? From Flying Toilet Paper to Bin Smoke Rings, Erupting Soda to Exploding Sandwich Bags, the experiments in this book will spark imaginations and totally impress your friends. Learn how to astound kids and kids at heart with easy and inexpensive experiments like: Bubbling Lava Bottle; The Incredible Can Crusher; Eating Nails for Breakfast; The Amazing Folding Egg; Kitchen Chemistry Quicksand Goo; The Screaming Balloon; Burning Money Surprise; Flying Tea Bag Rocket. This is not your ordinary book of science experiments. This is a geek chic look at Spangler's latest collection of tricks and try-it-at-home activities that reveal the secrets of science in unexpected ways. Over 200 colour photographs accompany the step-by-step instructions, and simple explanations uncover the how-to and why for each activity. Make potatoes fly, bowling balls float, and soda explode on command. But don't try these experiments at home . . . try them at a friend's home!

9th grade science fair project ideas: Good Housekeeping Amazing Science Good Housekeeping, 2021-08-24 Awesome S.T.E.A.M.-based science experiments you can do right at home with easy-to-find materials designed for maximum enjoyment, learning, and discovery for kids ages 8 to 12 Join the experts at the Good Housekeeping Institute Labs and explore the science you interact with every day. Using the scientific method, you'll tap into your own super-powers of logic and deduction to go on a science adventure. The engaging experiments exemplify core concepts and range from quick and simple to the more complex. Each one includes clear step-by-step instructions and color photos that demonstrate the process and end result. Plus, secondary experiments encourage young readers to build on what they've discovered. A "Mystery Solved!" explanation of the science at work helps your budding scientist understand the outcomes of each experiment. These super-fun, hands-on experiments include: Building a solar oven and making s'mores Creating an active rain cloud in a jar Using static electricity created with a balloon to power a light bulb Growing your own vegetables—from scraps! Investigating the forces that make an object sink or float And so much more! Bursting with more than 200 color photos and incredible facts, this sturdy hard cover is the perfect classroom resource or gift for any aspiring biologist, chemist, physicist, engineer, and mathematician!

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9th grade science fair project ideas: 11 Experiments That Failed Jenny Offill, 2011-09-27 This is a most joyful and clever whimsy, the kind that lightens the heart and puts a shine on the day, raved Kirkus Reviews in a starred review. Is it possible to eat snowballs doused in ketchup—and nothing else—all winter? Can a washing machine wash dishes? By reading the step-by-step instructions, kids can discover the answers to such all-important questions along with the book's curious narrator. Here are 12 hypotheses, as well as lists of what you need, what to do, and what happened that are sure to make young readers laugh out loud as they learn how to conduct science experiments (really!). Jenny Offill and Nancy Carpenter—the ingenious pair that brought you 17

Things I'm Not Allowed to Do Anymore—have outdone themselves in this brilliant and outrageously funny book.

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9th grade science fair project ideas: *Tabletop Scientist -- the Science of Air* Steve Parker, 2013-10-17 Introduces simple scientific principles involving air, and provides step-by-step instructions for experiments demonstrating these principles.

9th grade science fair project ideas: *Moose Mischief* Danielle Gillespie-Hallinan, 2017-10-27 Cooper has the clever idea of making his mom pancakes for her birthday, and his friend the moose offers to help. The moose claims he's the best chef in Alaska, but is he really? Find out if Cooper's mom is happy about the surprise awaiting her in the kitchen!

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9th grade science fair project ideas: *Experiments with Chickens* E. P. Niles, 1899

9th grade science fair project ideas: *Transforming the Workforce for Children Birth Through Age 8* National Research Council, Institute of Medicine, Board on Children, Youth, and Families, Committee on the Science of Children Birth to Age 8: Deepening and Broadening the

Foundation for Success, 2015-07-23 Children are already learning at birth, and they develop and learn at a rapid pace in their early years. This provides a critical foundation for lifelong progress, and the adults who provide for the care and the education of young children bear a great responsibility for their health, development, and learning. Despite the fact that they share the same objective - to nurture young children and secure their future success - the various practitioners who contribute to the care and the education of children from birth through age 8 are not acknowledged as a workforce unified by the common knowledge and competencies needed to do their jobs well. Transforming the Workforce for Children Birth Through Age 8 explores the science of child development, particularly looking at implications for the professionals who work with children. This report examines the current capacities and practices of the workforce, the settings in which they work, the policies and infrastructure that set qualifications and provide professional learning, and the government agencies and other funders who support and oversee these systems. This book then makes recommendations to improve the quality of professional practice and the practice environment for care and education professionals. These detailed recommendations create a blueprint for action that builds on a unifying foundation of child development and early learning, shared knowledge and competencies for care and education professionals, and principles for effective professional learning. Young children thrive and learn best when they have secure, positive relationships with adults who are knowledgeable about how to support their development and learning and are responsive to their individual progress. Transforming the Workforce for Children Birth Through Age 8 offers guidance on system changes to improve the quality of professional practice, specific actions to improve professional learning systems and workforce development, and research to continue to build the knowledge base in ways that will directly advance and inform future actions. The recommendations of this book provide an opportunity to improve the quality of the care and the education that children receive, and ultimately improve outcomes for children.

9th grade science fair project ideas: *Diophantus and Diophantine Equations* Isabella Grigoryevna Bashmakova, 2019-01-29 This book tells the story of Diophantine analysis, a subject that, owing to its thematic proximity to algebraic geometry, became fashionable in the last half century and has remained so ever since. This new treatment of the methods of Diophantus--a person whose very existence has long been doubted by most historians of mathematics--will be accessible to readers who have taken some university mathematics. It includes the elementary facts of algebraic geometry indispensable for its understanding. The heart of the book is a fascinating account of the development of Diophantine methods during the.

9th grade science fair project ideas: *I Who Have Never Known Men* Jacqueline Harpman, 1997-04-08 A work of fantasy, *I Who Have Never Known Men* is the haunting and unforgettable account of a near future on a barren earth where women are kept in underground cages guarded by uniformed groups of men. It is narrated by the youngest of the women, the only one with no memory of what the world was like before the cages, who must teach herself, without books or sexual contact, the essential human emotions of longing, loving, learning, companionship, and dying. Part thriller, part mystery, *I Who Have Never Known Men* shows us the power of one person without memories to reinvent herself piece by piece, emotion by emotion, in the process teaching us much about what it means to be human.

9th grade science fair project ideas: *What Flavor is Your Personality?* Alan R. Hirsch, 2001 Taste-test your personality with this addictive book. Dr. Hirsch is a well-known neurologist and psychiatrist who specializes in the treatment of smell and taste loss. Now he turns his expertise to show how to tell what kind of person you are by the ice cream you eat and the snacks you prefer. Based on his own numerous scientific studies, the author reveals how food preferences provide important clues about personality types and can even predict behavior. Serials to women and relationship magazines. Radio blitz.

9th grade science fair project ideas: *Science Fair Participation* Instructional Fair, 1999-02-26 Acknowledge all the young scientists at your next fair with this impressive and colorful award! Each award comes in a convenient 8 x 10 standard size for easy framing, and each package includes 36

awards.

9th grade science fair project ideas: *The Magic School Bus and the Science Fair Expedition* Joanna Cole, 2006 Ms. Frizzle takes the gang on a tour through the history of science so they can get ideas for their science expedition.

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Dia L. Michels, 2006 The subject of science is explored and demystified and it helps everybody get a better understanding of science and how it impacts life.

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Provides information about how to do a science fair project, including an explanation of the scientific method, how to choose, research, and write up the project, as well as effective ways to display the finished product.

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