

Explosively Creative Chemistry Experiments Scienc

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| GINA ENGLISH | |
| <p><u>Janice VanCleave's Wild, Wacky, and Weird Chemistry Experiments</u> Publications International For students, DIY hobbyists, and science buffs, who can no longer get real chemistry sets, this one-of-a-kind guide explains how to set up and use a home chemistry lab, with step-by-step instructions for conducting experiments in basic chemistry -- not just to make pretty colors and stinky smells, but to learn how to do real lab work: Purify alcohol by distillation Produce hydrogen and oxygen gas by electrolysis Smelt metallic copper from copper ore you make yourself Analyze the makeup of seawater, bone, and other common substances Synthesize oil of wintergreen from aspirin and rayon fiber from paper Perform forensics tests for fingerprints, blood, drugs, and poisons and much more From the 1930s through the 1970s, chemistry sets were among the most popular Christmas gifts, selling in the millions. But two decades ago, real chemistry sets began to disappear as manufacturers and retailers became concerned about liability. ,em>The Illustrated Guide to Home Chemistry Experiments steps up to the plate with lessons on how to equip your home chemistry lab, master laboratory skills, and work safely in your lab. The bulk of this book consists of 17 hands-on chapters that include multiple laboratory sessions on the following topics: Separating Mixtures Solubility and Solutions Colligative Properties of Solutions Introduction to Chemical Reactions & Stoichiometry Reduction-Oxidation (Redox) Reactions Acid-Base Chemistry Chemical Kinetics Chemical Equilibrium and Le Chatelier's Principle Gas Chemistry Thermochemistry and Calorimetry Electrochemistry Photochemistry Colloids and Suspensions Qualitative Analysis Quantitative Analysis Synthesis of Useful Compounds Forensic Chemistry With plenty of full-color illustrations and photos, Illustrated Guide to Home Chemistry Experiments offers introductory level sessions suitable for a middle school or first-year high school chemistry laboratory course, and more advanced sessions suitable for students who intend to take the College Board Advanced Placement (AP) Chemistry exam. A student who completes all of the laboratories in this book will have done the equivalent of two full years of high school chemistry lab work or a first-year college general chemistry laboratory course. This hands-on introduction to real chemistry -- using real equipment, real chemicals, and real quantitative experiments -- is ideal for the many thousands of young people and adults who want to experience the magic of chemistry. <u>Kitchen Science Lab for Kids</u> Gareth Stevens Publishing LLLP Gifted and talented students and any student interested in pursuing a science major in college needs a rigorous program to prepare them while they are still in high school. This book utilizes a format where the application of several disciplines—science, math, and language arts principles—are mandated. Each lab concludes with either an essay or a detailed analysis of what happened and why it happened. This format is based on the expectations of joining a university program or becoming an industrial science professional. The ideal student lab report would be written in a lab research notebook, and then the essay or final analysis is done on a word processor to allow for repeat editing and corrections. The research notebook has all graph pages, a title section, and a place for the students and their assistants to sign and witness that exercise. The basic mechanics of the lab report—title, purpose, procedure, diagrams, data table, math and calculations, observations, and graphs—are handwritten into the book. The conclusion is done on a word processor (MS Word), which allows the instructor to guide the student in writing and editing a complete essay using the MLA format. When the final copy is completed, the essay is printed and inserted into the lab notebook for grading. At the end of the term, the student has all their labs in one place for future reference. These lab notebooks can be obtained for as little as \$ 3.00 per book. This is money well-spent. In our district, the Board of Education buys the books for each student. The BOE sees these books as expendable but necessary materials for all science and engineering instruction.</p> <p>Chemistry Experiments for Physical Science and Engineering Majors Legare Street Press</p> | |

The ultimate Theodore Gray collection, Theodore Gray's Completely Mad Science collects every one of Gray's dramatic, visually spectacular, and enlightening scientific experiments into one complete volume. Bestselling author Theodore Gray has spent more than a decade dreaming up, executing, photographing, and writing about extreme scientific experiments, which he then published between 2009 and 2014 in his monthly Popular Science column "Gray Matter." Previously published in book form by Black Dog in two separate volumes (Mad Science and Mad Science 2), these experiments, plus an additional 5, are available now in one complete book. Completely Mad Science is 432 pages of dazzling chemical demonstrations, illustrated in spectacular full-color photographs. Experiments include: Casting a model fish out of mercury (demonstrating how this element behaves very differently depending upon temperature); the famous Flaming Bacon Lance that can cut through steel (demonstrating the amount of energy contained in fatty foods like bacon); creating nylon thread out of pure liquid by combining molecules of hexamethylenediamine and sebacyol chloride; making homemade ice cream using a fire extinguisher and a pillow case; powering your iPhone using 150 pennies and an apple, and many, many more. Theodore Gray is the author of The Elements: A Visual Exploration of Every Known Atom in the Universe; Molecules: The Elements and the Architecture of Everything; Theo Gray's Mad Science: Experiments You Can Do at Home, But Probably Shouldn't; and Mad Science 2: Experiments You Can Do at Home, but Still Probably Shouldn't. He lives in Urbana, Illinois. *Chemistry Projects to Build On* Sterling Publishing Company, Inc. Gives directions for many simple chemistry experiments, including descriptions of necessary equipment, principles, techniques, and safety precautions.

Science Fair Projects Enslow Publishing, LLC Does mass change when water freezes? What is the source of the gas in a seltzer tablet? Find out in your own lab! Readers learn how to make their own laboratory with simple materials and household items. Then it's time to start experimenting! Step-by-step directions help you conduct your own experiments and test hypotheses. Perfect for the science fair! *Real Chemistry Experiments* The Rosen Publishing Group, Inc Provides tools and instructions for making slime, gloop, ooze, and other products throuch chemistry experiments.

Many More of Janice VanCleave's Wild, Wacky, and Weird Chemistry Experiments Courier Corporation Full STEAM ahead!—21st-century chemistry for kids Chemistry for kids can be so much fun! Real Chemistry Experiments has 40 exciting and engaging experiments with a real-life STEAM (Science, Technology, Engineering, Art, Math) connection for kids. Become a better problem-solver, inventor, and innovator with these fascinating chemistry experiments. Each one has a clear purpose or question that's being asked, step-by-step instructions, a list of materials you'll need, questions to help you record your observations, and more. By the time you're through, you'll have chemistry for kids down to a science! This book of chemistry for kids includes: Easy-to-find materials—From tap water and paper towels, to popsicle sticks and dish soap, the materials needed for these experiments are quick and easy to find. Real-life science—Learn the real chemistry behind how and why each experiment works, like why water and oil don't mix in Oily Oceans, how geodes form in Eggshell Geodes, and more. Chemistry basics—Get tons of info about chemistry and what it is, from the scientific method and the Periodic Table, to atoms and the five main areas of study. Imagine all the things you can learn, create, and discover in this colorful book about chemistry for kids—the sky's the limit!

Chemical Experiments, General and Analytical: For Use with Any Text-Book of Chemistry, Or Without a Text-Book Workman Publishing Company

Detailed instructions lead the user into brief experiments in chemistry.

Illustrated Guide to Home Chemistry Experiments The Rosen Publishing Group, Inc

Experiments provide first-hand knowledge through the act of doing and observing. Since this is for

beginner chemistry, there won't be any need to handle dangerous substances. Rather, the purpose of this book is to use everyday materials to induce a learning of chemicals, bonds and reactions. Are you ready to get into chemistry? Then buy a copy today!

Chemistry Experiments in Your Own Laboratory The Rosen Publishing Group, Inc How fizzy is soda pop after it's warmed up? What happens to a rubber band that's left outside? Which types of clothing keep you warmest, and why? Find out the answers and take top prize at the school science fair with these 47 hands-on and appealing "blue ribbon" chemistry experiments. Test chemical trickery in processed foods; the concept of pH; viscosity; carbonization; fermentation; evaporation; dilution; and lots more. A WINNING combination of learning and fun. Bob Bonnet lives in Clearmont, NJ, and Dan Keen lives in Cape May Court House, NJ. 96 pages, 120 b/w illus., 8 1/4 x 11. NEW IN PAPERBACK

Chemical Experiments The Rosen Publishing Group, Inc "Explains how to use the scientific method to conduct several inorganic chemistry experiments. Includes ideas for science fair projects"--Provided by publisher.

Even More of Janice VanCleave's Wild, Wacky, and Weird Chemistry Experiments Sterling Publishing Company, Inc.

The experiments in these books--easy and fun science experiments using household materials--are perfect starting points for science fair projects that support the Science school curriculum. GoldenBook of Chemistry Experiments Timeless Classics Books Seventy-three easy experiments — requiring only materials found at home or easily available, such as candles, coins, steel wool, etc. — illustrate basic phenomena like vacuum, simple chemical reactions, and more. All safe. Modern, well-planned.

Chemistry Experiments "O'Reilly Media, Inc."

The Golden Book of Chemistry Experiments was a children's chemistry book written in the 1960s by Robert Brent and illustrated by Harry Lazarus and published by Western Publishing in their Golden Books series. Many of the experiments contained in the book are now considered highly dangerous for unsupervised children, and would not appear in a modern children's chemistry book. Only 126 copies of this book exist in libraries worldwide. The book was a source of inspiration to David Hahn, nicknamed “the Radioactive Boy Scout” by the media, who tried to collect a sample of every chemical element and also built a model nuclear reactor, which led to the involvement of the authorities. This book is now considered quite RARE and a Scientific Gem, and so we are happy to have made this available for Print!! Buy a Printed Copy of the The Golden Book of Chemistry Experiments from Magforest.com

Adventures with Atoms and Molecules Enslow Publishing, LLC

In a series of fun and involving hands-on chemistry experiments, kids observe the effect of molecular motion, try to inflate a balloon inside of a bottle, demonstrate the cleaning of water by capillary action, discover how detergent causes other molecules to move, and make water appear to boil with only the touch of a finger. They will also demonstrate how salt makes it harder for water to freeze, learn how to grow salt crystals and how to produce an elastic material, and observe liquids that will and will not mix together. Featuring color illustrations and safe, simple step-by-step instructions, Janice VanCleave again shows just how much fun science can be.

The Golden Book of Chemistry Experiments Speedy Publishing LLC

Soap scum, brown bananas, clumping milk, and swollen gummi bears are a few of the crazy, kooky, and quirky components of these chemistry experiments from renowned educator Janice VanCleave. Readers will be fascinated by all the principles of chemistry they can learn about by using items they have at home, including hydration, oxidation, expansion, viscosity, and more. Following safe, simple step-by-step instructions, students will have a blast performing each of these twenty-four experiments and gain real, demonstrable knowledge in the field of chemistry.

Chemistry Experiments Speedy Publishing LLC

These easy and fun chemistry experiments use easy-to-obtain household materials and are

excellent starting points for students to devise their own science fair projects. Readers are guided through applying the scientific method to conduct experiments, such as examining Brownian motion of smoke particles, building an electric cell, and separating substances in a solution. Through clear instructions and scientific illustrations, students will gain a better understanding of the basic concepts demonstrated by each experiment. This book also contains safety tips to educate students on the code of conduct expected when conducting experiments, an appendix listing science supply companies, a glossary, further reading with books and websites, and an index.

Janice VanCleave's Crazy, Kooky, and Quirky Chemistry Experiments Courier Corporation Experiments provide first-hand knowledge through the act of doing and observing. Since this is for beginner chemistry, there won't be any need to handle dangerous substances. Rather, the purpose of this book is to use everyday materials to induce a learning of chemicals, bonds and reactions.

Are you ready to get into chemistry? Then buy a copy to

Chemistry Experiments for Children Lab for Kids

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be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

[Explosive Science Experiments for Little Chemists - Science Project | Children's Science Experiment Books](#) Enslow Publishers, Inc.

Kids can create their own chemistry lab right at home, with the most ordinary equipment and this brightly illustrated collection of fun experiments. Could you ever imagine that whipping up some sweet maple candy could teach you about science? It does! Or try to put a banana in a jar without using your hands. Some of the projects even have practical uses: as you're learning about negative- and positive- charged molecules, you're also creating marbled gift wrap. From "berry easy" litmus paper to exothermic exercises, these experiments will transform you into a chemistry whiz.