

DIY Science

Robert Bruce Thompson



Illustrated Guide to Home Chemistry Experiments

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 inexpensively, 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 with real equipment and real chemicals.

Learn how to:

- Distill purified alcohol
- Make hydrogen and oxygen by electrolysis
- Smelt copper metal from homemade copper ore
- Analyze seawater, bone, and other substances
- Synthesize wintergreen oil from aspirin and rayon from paper
- Do forensic tests for fingerprints, blood, drugs, and poisons
- And much more!

From the 1930s through the 1970s, chemistry sets were among the most popular gifts, selling in the millions. Then real chemistry sets began to disappear as manufacturers and retailers became concerned about liability. The *Illustrated Guide to Home Chemistry Experiments* fills this void with lessons on how to equip your home chemistry lab, master laboratory skills, and work safely in your lab. The book's 17 hands-on chapters feature multiple laboratory sessions on topics ranging from separating mixtures and chemical reactions to electrochemistry, photochemistry, synthesis of useful compounds, and forensic chemistry.

This hands-on introduction involving real quantitative experiments is ideal for thousands of young people and adults who want to experience the magic of chemistry. Inside, you'll find introductory sessions suitable for a middle school or first-year high school chemistry laboratory course, and more advanced sessions for students who intend to take the College Board Advanced Placement (AP) Chemistry exam. Completing the laboratories in this book is equivalent to two full years of high school chemistry lab work or a first-year college general chemistry laboratory course.

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Robert Bruce Thompson is the coauthor of *Building the Perfect PC*, *Astronomy Hacks*, and the *Illustrated Guide to Astronomical Wonders*, and has written many other books, articles, and on-line training courses. In 1965, Robert, aged 12, built his first home chemistry lab in the basement. More than 40 years later, he still has a basement lab, where he explores chemistry, biology, physics, earth science, and forensics.

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sessions devoted to a particular topic You ll find a complete list of equipment and chemicals you need for each session Analyze soil hair and fibers Match glass and plastic specimens Develop latent fingerprints and reveal blood traces Conduct drug and toxicology tests Analyze gunshot and explosives residues Detect forgeries and fakes Analyze impressions such as tool marks and footprints Match pollen and diatom samples Extract isolate and visualize DNA samples Through their company The Home Scientist LLC thehomescientist.com forensics the authors also offer inexpensive custom kits that provide specialized equipment and supplies you ll need to complete the experiments Add a microscope and some common household items and you re good to go

Innovating Luis Perez-Breva,2018-08-28 Discover the MIT developed doer s approach to innovation with this guide that reveals you don t need an earth shattering idea to create a standout product service or business just a hunch that you can scale up to impact Innovation is the subject of countless books and courses but there s very little out there about how you actually innovate Innovation and entrepreneurship are not one and the same although aspiring innovators often think of them that way They are told to get an idea and a team and to build a show and tell for potential investors In *Innovating* Luis Perez Breva describes another approach a doer s approach developed over a decade at MIT and internationally in workshops classes and companies He shows that innovating doesn t require an earth shattering idea all it takes is a hunch Anyone can do it By prototyping a problem and learning by being wrong innovating can be scaled up to make an impact As Perez Breva demonstrates nothing is new at the outset of what we only later celebrate as innovation In *Innovating* the process illustrated by unique and dynamic artwork is shown to be empirical experimental nonlinear and incremental You give your hunch the structure of a problem Anything can be a part Your innovating accrues other people s knowledge and skills Perez Breva describes how to create a kit for innovating and outlines questions that will help you think in new ways Finally he shows how to systematize what you ve learned to advocate communicate scale up manage innovating continuously and document you need a notebook to converse with yourself he advises Everyone interested in innovating also needs to read this book

Made by Hand Mark Frauenfelder,2011-10-25 From his unique vantage point as editor in chief of MAKE magazine the hub of the newly invigorated do it yourself movement Mark Frauenfelder takes readers on an inspiring and surprising tour of the vibrant world of DIY The Internet has brought together large communities of people who share ideas tips and blueprints for making everything from unmanned aerial vehicles to pedal powered iPhone chargers to an automatic cat feeder jury rigged from a VCR DIY is a direct reflection of our basic human desire to invent and improve long suppressed by the availability of cheap mass produced products that have drowned us in bland convenience and cultivated our most wasteful habits Frauenfelder spent a year trying a variety of offbeat projects such as keeping chickens and bees tricking out his espresso machine whittling wooden spoons making guitars out of cigar boxes and doing citizen science with his daughters in the garage His whole family found that DIY helped them take control of their lives offering a path that was simple direct and clear Working with their hands and minds helped them feel more engaged with the world around them

Frauenfelder also reveals how DIY is changing our culture for the better He profiles fascinating alpha makers leading various DIY movements and grills them for their best tips and insights Beginning his journey with hands as smooth as those of a typical geek Frauenfelder offers a unique perspective on how earning a few calluses can be far more rewarding and satisfying than another trip to the mall

Illustrated Guide to Home Biology Experiments Robert Bruce

Thompson, Barbara Fritchman Thompson, 2012-04-17 Experience the magic of biology in your own home lab This hands on introduction includes more than 30 educational and fun experiments that help you explore this fascinating field on your own Perfect for middle and high school students and DIY enthusiasts this full color guide teaches you the basics of biology lab work and shows you how to set up a safe lab at home The Illustrated Guide to Home Biology Experiments is also written with the needs of homeschoolers firmly in mind as well as adults who are eager to explore the science of nature as a life long hobby To get the most from the experiments we recommend using this guide in conjunction with a standard biology text such as the freely downloadable CK 12 Biology ck 12 org Master the use of the microscope including sectioning and staining Build and observe microcosms soda bottle worlds of pond life Investigate the chemistry of life from simple acids bases and buffers to complex carbohydrates proteins lipids enzymes and DNA Extract isolate and observe DNA Explore photosynthesis osmosis nitrogen fixation and other life processes Investigate the cell cycle mitosis and cytokinesis Observe populations and ecosystems and perform air and water pollution tests Investigate genetics and inheritance Do hands on microbiology from simple culturing to micro evolution of bacteria by forced selection Gain hands on lab experience to prepare for the AP Biology exam Through their company The Home Scientist LLC thehomescientist com biology the authors also offer inexpensive custom kits that provide specialized equipment and supplies you ll need to complete the experiments Add a microscope and some common household items and you re good to go

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Thompson, Barbara Fritchman Thompson, 2012-04-17 Experience the magic of biology in your own home lab This hands on introduction includes more than 30 educational and fun experiments that help you explore this fascinating field on your own Perfect for middle and high school students and DIY enthusiasts this full color guide teaches you the basics of biology lab work and shows you how to set up a safe lab at home The Illustrated Guide to Home Biology Experiments is also written with the needs of homeschoolers firmly in mind as well as adults who are eager to explore the science of nature as a life long hobby To get the most from the experiments we recommend using this guide in conjunction with a standard biology text such as the freely downloadable CK 12 Biology ck 12 org Master the use of the microscope including sectioning and staining Build and observe microcosms soda bottle worlds of pond life Investigate the chemistry of life from simple acids bases and buffers to complex carbohydrates proteins lipids enzymes and DNA Extract isolate and observe DNA Explore photosynthesis osmosis nitrogen fixation and other life processes Investigate the cell cycle mitosis and cytokinesis Observe populations and ecosystems and perform air and water pollution tests Investigate genetics and inheritance Do hands on microbiology from

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Making Simple Robots Kathy Ceceri,2015-02-19 Making Simple Robots is based on one idea Anybody can build a robot That includes kids school teachers parents and non engineers If you can knit sew or fold a flat piece of paper into a box you can build a no tech robotic part If you can use a hot glue gun you can learn to solder basic electronics into a low tech robot that reacts to its environment And if you can figure out how to use the apps on your smart phone you can learn enough programming to communicate with a simple robot Written in language that non engineers can understand Making Simple Robots helps beginners move beyond basic craft skills and materials to the latest products and tools being used by artists and inventors Find out how to animate folded paper origami design a versatile robot wheel leg for 3D printing or program a rag doll to blink its cyborg eye Each project includes step by step directions as well as clear diagrams and photographs And every chapter offers suggestions for modifying and expanding the projects so that you can return to the projects again and again as your skill set grows

As Chimney Sweepers Come to Dust Alan Bradley,2015-01-06 NEW YORK TIMES BESTSELLER Flavia de Luce part Harriet the Spy part Violet Baudelaire from Lemony Snicket s A Series of Unfortunate Events The New York Times Book Review takes her remarkable sleuthing prowess to the unexpectedly unsavory world of Canadian boarding schools in this captivating mystery **BONUS** This edition includes The Curious Case of the Copper Corpse A Flavia de Luce Story Banished is how twelve year old Flavia de Luce laments her predicament when her father and Aunt Felicity ship her off to Miss Bodycote s Female Academy the boarding school that her mother Harriet once attended across the sea in Canada The sun has not yet risen on

Flavia's first day in captivity when a gift lands at her feet Flavia being Flavia a budding chemist and sleuth that gift is a charred and mummified body which tumbles out of a bedroom chimney Now while attending classes making friends and enemies and assessing the school's stern headmistress and faculty one of whom is an acquitted murderess Flavia is on the hunt for the victim's identity and time of death as well as suspects motives and means Rumors swirl that Miss Bodycote's is haunted and that several girls have disappeared without a trace When it comes to solving multiple mysteries Flavia is up to the task but her true destiny has yet to be revealed Praise for *As Chimney Sweepers Come to Dust* Flavia de Luce is perhaps contemporary crime fiction's most original character to say she is Pippi Longstocking with a Ph.D. in chemistry speciality poisons barely begins to describe her Maclean's Another treat for readers of all ages *As Chimney Sweepers Come to Dust* maintains the high standards Bradley set from the start Booklist Exceptional The intriguing setup only gets better and Bradley makes Miss Bodycote's a suitably Gothic setting for Flavia's sleuthing Through it all her morbid narrative voice continues to charm Publishers Weekly starred review Even after all these years Flavia de Luce is still the world's greatest adolescent British chemist busybody sleuth The Seattle Times Plot twists come faster than Canadian snowfall Bradley's sense of observation is as keen as gung ho scientist Flavia's The results so far are seven sparkling Flavia de Luce mysteries Library Journal

The Flavia de Luce Series 7-Book Bundle Alan Bradley, 2016-04-19 New York Times bestselling author Alan Bradley is a master of the British cozy mystery and in Flavia de Luce he has created a wickedly clever and intrepid young sleuth hailed as one of the most remarkable creations in recent literature USA Today Now readers can follow the captivating Flavia as she stirs up trouble to solve the most confounding of crimes in this seven volume eBook bundle THE SWEETNESS AT THE BOTTOM OF THE PIE THE WEED THAT STRINGS THE HANGMAN'S BAG A RED HERRING WITHOUT MUSTARD I AM HALF SICK OF SHADOWS SPEAKING FROM AMONG THE BONES THE DEAD IN THEIR VAULTED ARCHES AS CHIMNEY SWEEPERS COME TO DUST It is the summer of 1950 and a series of inexplicable events has struck Buckshaw the decaying English mansion that Flavia's family calls home A dead bird is found on the doorstep a postage stamp bizarrely pinned to its beak Hours later Flavia finds a man lying in the cucumber patch and watches as he takes his dying breath For the appalled and delighted Flavia an aspiring chemist with a passion for poison life begins in earnest when murder comes to Buckshaw Her investigation is the stuff of science full of possibilities contradictions and connections I wish I could say I was afraid but I wasn't Quite the contrary This was by far the most interesting thing that had ever happened to me in my entire life Praise for the Flavia de Luce series winners of the Crime Writers Association Debut Dagger Award Barry Award Agatha Award Macavity Award Dilys Winn Award and Arthur Ellis Award Every Flavia de Luce novel is a reason to celebrate USA Today Part Harriet the Spy part Violet Baudelaire from Lemony Snicket's A Series of Unfortunate Events Flavia is a pert and macabre pragmatist The New York Times Book Review Think preteen Nancy Drew only savvier Entertainment Weekly This idiosyncratic young heroine continues to charm The Wall Street Journal Delightful a combination of Eloise and Sherlock

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An Illustrated Guide to Korean Mythology Won-Oh Choi, 2008-04-10 This highly engaging volume by one of Korea's leading scholars of comparative mythology the the first study of its kind in English provides a valuable introduction to centuries old beliefs myths and folk tales relating to Cosmology and Flood Birth and Agriculture Messengers of the Underworld Shamans Disease Good Fortune Love and Family Gods of Village Shrines and Heroes Containing thirty traditional stories the book is fully illustrated throughout and contains a wide variety of Korean art including rare shamanist paintings as well as the work of some contemporary Korean artists All the stories based on Korean oral tradition have been retold by the author according to their main plot and meaning because the original texts songs by shamans containing many obsolete words and obscure idioms are not easily understood today The original title and source including text notes are provided at the end of each story The author's Introduction sets out the historical background and significance of the myths that appear here He also provides full details of each of the Korean gods and their roles in mythology While being a welcome addition to the literature on Korean culture for the non specialist An Illustrated Guide to Korean Mythology also provides an invaluable reference source for scholars and researchers in the fields of East Asian Mythology and Anthropology as well as Korean History Religion and Literature

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