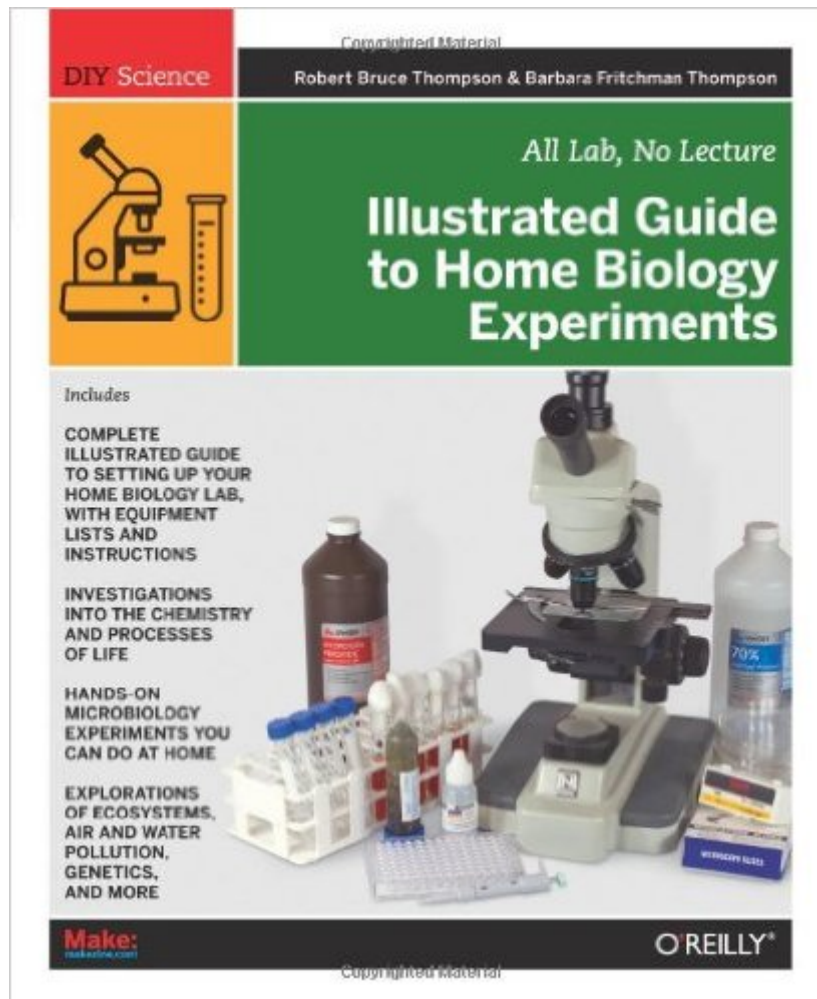


The book was found

Illustrated Guide To Home Biology Experiments: All Lab, No Lecture (DIY Science)



Synopsis

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.

Book Information

Age Range: 9 and up

Series: DIY Science

Paperback: 378 pages

Publisher: Maker Media, Inc; 1 edition (April 29, 2012)

Language: English

ISBN-10: 1449396593

ISBN-13: 978-1449396596

Product Dimensions: 8 x 0.7 x 9.8 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 4.7 out of 5 stars [See all reviews](#) (34 customer reviews)

Best Sellers Rank: #173,439 in Books (See Top 100 in Books) #63 in [Books > Science & Math > Experiments, Instruments & Measurement > Experiments & Projects](#) #109 in [Books > Law >](#)

Customer Reviews

Robert Bruce Thompson and his wife Barbara Fritchman Thompson are now focusing on the home school market. After writing primarily about computers and astronomy for years, they are writing science lab books for the home school market. Their first book for that market was Illustrated Guide to Home Chemistry Experiments, this one covers building a home lab for biology experiments. This is not a biology text, as the subheading states, "All Lab, No Lecture." They also sell kits to supply materials for the lab experiments for each book in the Home Experiments series. In spite of the statement "All Lab, No Lecture," there is a great deal of prose in the book, all of it written in clear, insightful style. Few writers can match the clarity and economy of the Thompsons' writing. The book begins with instructions on setting up a lab, including chapter and verse on microscopes, culture, histology, and general laboratory equipment. There is basic instruction in using a microscope, mounting and staining specimens. Chemist that he is, Robert then spends time in labs exploring acids, bases, buffers, carbohydrates, lipids, proteins, enzymes, and vitamins. In all, there are 33 labs listed, with multiple procedures within each lab.

[Download to continue reading...](#)

DIY: 365 Days of DIY: A Collection of DIY, DIY Household Hacks, DIY Cleaning and Organizing, DIY Projects, and More DIY Tips to Make Your Life Easier (With Over 45 DIY Christmas Gift Ideas)
365 Days of Decluttering and Organizing Your Home: DIY Household Hacks, DIY Declutter and Organize, DIY Projects, DIY Crafts, DIY Books, DIY Cookbook, ... Home Improvement (DIY Hacks Book 1)
365 Days of DIY Hacks - Home, Parenting, Pets, Gifts, Budgeted: (DIY Household Hacks, DIY Declutter and Organize, DIY Projects, DIY Crafts, DIY Books, DIY Gift, Do It Yourself, Home Improvement, Kids)
Illustrated Guide to Home Biology Experiments: All Lab, No Lecture (DIY Science)
Illustrated Guide to Home Forensic Science Experiments: All Lab, No Lecture (Diy Science)
DIY Gifts: 50 Cute And Easy DIY Gifts In A Jar That Everybody Actually Wants: (DIY Projects, diy household hacks,diy Speed Cleaning, tiny home living, ... everyday life, diy Speed Cleaning, gifts))
Biology: The Ultimate Self Teaching Guide - Introduction to the Wonderful World of Biology - 3rd Edition (Biology, Biology Guide, Biology For Beginners, Biology For Dummies, Biology Books)
DIY BUNDLE: The Best DIY Projects in One Book! (diy, diy projects, indoor gardening)
Home Security: Top 10 Home Security Strategies to Protect Your House and Family Against Criminals and Break-ins (home security monitor, home security system diy, secure home network)
The Home Lab: A Photo Guide for Anatomy Lab Materials
DIY Mega-Bundle. Turn On Your

Imagination With These 20 Amazing Books!: (DIY Crafts, DIY Books) (How-To Books) Cheap and Functional DIY Box Set (6 in 1): Creative, Budget-Friendly Quick and Easy DIY Prepper Projects, Household Hacks, Decorating Ideas and Outdoor Designs (DIY Projects & Household Hacks) Plumbing: DIY for Beginners - Plumbing Repair and Installation for Beginners - Plumbing for Dummies (DIY Projects - DIY Household Hacks - Plumbing tips - Plumbing Parts Book 1) The Science Explorer: The Best Family Activities and Experiments from the World's Favorite Hands-On Science Museum (Exploratorium Science-At-Home Book) Gardening: Air-Cleaning House Plants to Purify Your Home - DIY Home, Home Gardening & Indoor Gardening (Healthy Home, Gardening for Beginners, Container ... Hacks, Healthier You, Outdoor Gardening) Dad's Book of Awesome Science Experiments: From Boiling Ice and Exploding Soap to Erupting Volcanoes and Launching Rockets, 30 Inventive Experiments to Excite the Whole Family! Stupid Science: Weird Experiments, Mad Scientists, and Idiots in the Lab (Stupid History) Forrest Mims' Science Experiments: DIY Projects from the Pages of Make: The Hands-on XBEE Lab Manual: Experiments that Teach you XBEE Wirelesss Communications Art Lab for Kids: 52 Creative Adventures in Drawing, Painting, Printmaking, Paper, and Mixed Media-For Budding Artists (Lab Series)

[Dmca](#)