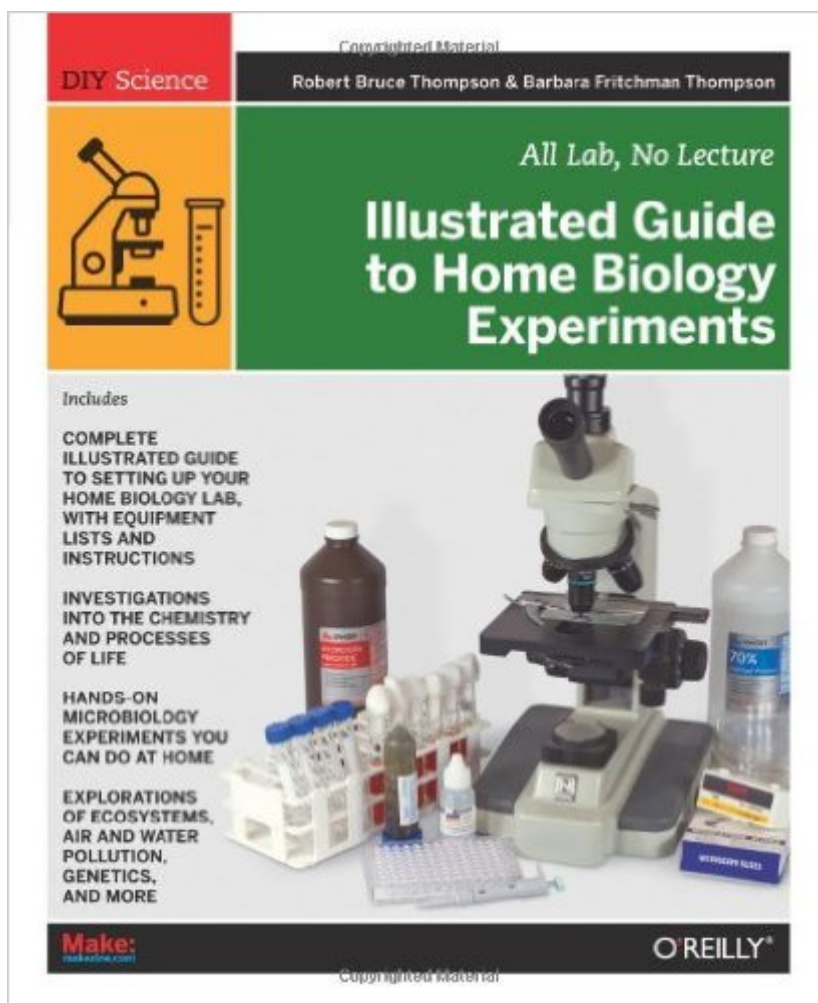


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Illustrated Guide To Home Biology Experiments: All Lab, No Lecture (DIY Science)



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 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

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

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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.

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