



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

Robert Bruce Thompson, Barbara Fritchman Thompson

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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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