



# **Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science)**

*Robert Bruce Thompson*

Download now

[Click here](#) if your download doesn't start automatically

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

*Robert Bruce Thompson*

**Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science)** Robert Bruce Thompson

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. 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.

 [Download Illustrated Guide to Home Chemistry Experiments: All La ...pdf](#)

 [Read Online Illustrated Guide to Home Chemistry Experiments: All ...pdf](#)

**Download and Read Free Online Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science) Robert Bruce Thompson**

---

## **Download and Read Free Online Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science) Robert Bruce Thompson**

---

### **From reader reviews:**

#### **Jenny Dill:**

Have you spare time for a day? What do you do when you have considerably more or little spare time? Sure, you can choose the suitable activity intended for spend your time. Any person spent all their spare time to take a stroll, shopping, or went to the actual Mall. How about open or even read a book allowed Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science)? Maybe it is being best activity for you. You know beside you can spend your time together with your favorite's book, you can better than before. Do you agree with it has the opinion or you have some other opinion?

#### **Marie Michael:**

The reserve with title Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science) possesses a lot of information that you can understand it. You can get a lot of gain after read this book. This particular book exist new expertise the information that exist in this publication represented the condition of the world right now. That is important to yo7u to be aware of how the improvement of the world. That book will bring you within new era of the glowbal growth. You can read the e-book on your own smart phone, so you can read that anywhere you want.

#### **Gail Nugent:**

Playing with family in the park, coming to see the water world or hanging out with friends is thing that usually you may have done when you have spare time, subsequently why you don't try factor that really opposite from that. Just one activity that make you not sense tired but still relaxing, trilling like on roller coaster you already been ride on and with addition info. Even you love Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science), you are able to enjoy both. It is very good combination right, you still would like to miss it? What kind of hang-out type is it? Oh can occur its mind hangout people. What? Still don't obtain it, oh come on its named reading friends.

#### **Barry Altman:**

As a scholar exactly feel bored to help reading. If their teacher questioned them to go to the library or make summary for some guide, they are complained. Just minor students that has reading's heart or real their interest. They just do what the professor want, like asked to go to the library. They go to at this time there but nothing reading significantly. Any students feel that looking at is not important, boring along with can't see colorful images on there. Yeah, it is being complicated. Book is very important to suit your needs. As we know that on this period of time, many ways to get whatever we wish. Likewise word says, ways to reach Chinese's country. Therefore , this Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science) can make you experience more interested to read.

**Download and Read Online Illustrated Guide to Home Chemistry  
Experiments: All Lab, No Lecture (DIY Science) Robert Bruce  
Thompson #ED13TQLOVKI**

## **Read Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science) by Robert Bruce Thompson for online ebook**

Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science) by Robert Bruce Thompson Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science) by Robert Bruce Thompson books to read online.

### **Online Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science) by Robert Bruce Thompson ebook PDF download**

**Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science) by Robert Bruce Thompson Doc**

**Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science) by Robert Bruce Thompson Mobipocket**

**Illustrated Guide to Home Chemistry Experiments: All Lab, No Lecture (DIY Science) by Robert Bruce Thompson EPub**