

Illustrated Guide To Home Chemistry Experiments All Lab

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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 em 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

learn how to 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 toolmark impressions and camera images match pollen and diatom samples extract isolate and visualize dna samples p 4 of cover

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

provides information on setting up an in home chemistry lab covers the basics of chemistry and offers a variety of experiments

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