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LABORATORY EXPERIMENTS IN GENERAL CHEMISTRY FEATURING MEASURENET is the first self-directed laboratory manual to incorporate experiments conducted with MeasureNet -- an innovative, network data collection system that introduces students to "real world" chemistry. With the new use of MeasureNet, experiments are more precise, only requiring small quantities of chemicals, making the lab safer and environmentally friendly. This laboratory manual is designed to first prepare students for the laboratory setting through conceptual and technique experiments. Students then work to solve a multi-component question, utilizing what they learned in previous experiments. Through this approach, and with the help of MeasureNet's modern electronic data collection, analysis, and reduction, students truly prepare themselves for conducting chemistry in a professional setting!

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By Stephanie Dillon with contributions from Sandra Chimon Peszek, DePaul University Laboratory Manual for General Chemistry: Atoms First, Second Edition is organized using the atoms first approach and is written to correspond with the Second Edition of General Chemistry: Atoms First by McMurry/Fay. This manual contains twenty-four experiments with a focus on real world applications, following an intuitive logic progressing from the simplest building blocks to successively more complex concepts. Each experiment covers one or more topics discussed within a chapter of the textbook to help students understand the underlying concepts covered in the lecture course. Additionally, each experiment contains a set of pre-laboratory questions (also assignable in MasteringChemistry®), an introduction, a background section explaining concepts that each student is expected to master for a full understanding of the experimental results, a step-by-step procedure (including safety information), and a report section featuring post-laboratory questions. Note: This is the standalone book (Laboratory Manual for General Chemistry: Atoms First, Second Edition) if you want the book/access card order the ISBN below: You must have the Instructor ID to access MasteringChemistry. 0321913329 / 9780321913326 General Chemistry: Atoms First Plus MasteringChemistry with eText -- Access Card Package & Laboratory Manual for General Chemistry:

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The best backyard experiments for hands-on science learning The Ultimate Book of Saturday Science is Neil Downie's biggest and most astounding compendium yet of science experiments you can do in your own kitchen or backyard using common household items. It may be the only book that encourages hands-on science learning through the use of high-velocity, air-driven carrots. Downie, the undisputed maestro of Saturday science, here reveals important principles in physics, engineering, and chemistry through such marvels as the Helevator□a contraption that's half helicopter, half elevator□and the Rocket Railroad, which pumps propellant up from its own track. The Riddle of the Sands demonstrates why some granular materials form steep cones when poured while others collapse in an avalanche. The Sunbeam Exploder creates a combustible delivery system out of sunlight, while the Red Hot Memory experiment shows you how to store data as heat. Want to learn to tell time using a knife and some butter? There's a whole section devoted to exotic clocks and oscillators that teaches you how. The Ultimate Book of Saturday Science features more than seventy fun and astonishing experiments that range in difficulty from simple to more challenging. All of them are original, and all are guaranteed to work. Downie provides instructions for each one and explains the underlying science, and also presents experimental variations that readers will want to try.

BANNED: The Golden Book of Chemistry Experiments was a children's chemistry book written in the 1960s by Robert Brent and illustrated by Harry Lazarus, showing how to set up your own home laboratory and conduct over 200 experiments. The book is

controversial, as many of the experiments contained in the book are now considered too dangerous for the general public. There are apparently only 126 copies of this book in libraries worldwide. Despite this, its known as one of the best DIY chemistry books every published. The book was a source of inspiration to David Hahn, nicknamed "the Radioactive Boy Scout" by the media, who tried to collect a sample of every chemical element and also built a model nuclear reactor (nuclear reactions however are not covered in this book), which led to the involvement of the authorities. On the other hand, it has also been the inspiration for many children who went on to get advanced degrees and productive chemical careers in industry or academia.

Each experiment in this manual was selected to match topics in your textbook and includes an introduction, a procedure, a page of pre-lab exercises about the concepts the lab illustrates, and a report form. Some have a scenario that places the experiment in a real-world context. For this edition, minor updates have been made to the lab manual to address some safety concerns. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Replicate a chemical reaction similar to one Marie Curie used to purify radioactive elements! Distill perfume using a method created in ancient Mesopotamia by a woman named Tapputi! Aspiring chemists will discover these and more amazing role models and memorable experiments in Chemistry for Kids, the debut book of The Kitchen Pantry Scientist series. This engaging guide offers a series of snapshots of 25 scientists famous for their work with chemistry, from ancient history through today. Each lab tells the story of a scientist along with some background about the importance of their work, and a description of where it is still being used or reflected in today's world. A step-by-step illustrated experiment paired with each story offers kids a hands-on

opportunity for exploring concepts the scientists pursued, or are working on today. Experiments range from very simple projects using materials you probably already have on hand, to more complicated ones that may require a few inexpensive items you can purchase online. Just a few of the incredible people and scientific concepts you'll explore: Galen (b. 129 AD) Make soap from soap base, oil, and citrus peels. Modern application: medical disinfectants Joseph Priestly (b. 1733) Carbonate a beverage using CO2 from yeast or baking soda and vinegar mixture. Modern application: soda fountains Alessandra Volta (b. 1745) Make a battery using a series of lemons and use it to light an LED. Modern application: car battery Tu Youyou (b. 1930) Extract compounds from plants. Modern application: pharmaceuticals and cosmetics People have been tinkering with chemistry for thousands of years. Whether out of curiosity or by necessity, Homo sapiens have long loved to play with fire: mixing and boiling concoctions to see what interesting, beautiful, and useful amalgamations they could create. Early humans ground pigments to create durable paint for cave walls, and over the next 70 thousand years or so as civilizations took hold around the globe, people learned to make better medicines and discovered how to extract, mix, and smelt metals for cooking vessels, weapons, and jewelry. Early chemists distilled perfume, made soap, and perfected natural inks and dyes. Modern chemistry was born around 250 years ago, when measurement, mathematics, and the scientific method were officially applied to experimentation. In 1896, after the first draft of the periodic table was published, scientists rushed to fill in the blanks. The elemental discoveries that followed gave scientists the tools to visualize the building blocks of matter for the first time in history, and they proceeded to deconstruct the atom. Since then, discovery has accelerated at an unprecedented rate. At times, modern chemistry and its creations have caused heartbreaking, unthinkable harm, but more often than not, it makes our lives better. With this fascinating, hands-on exploration of the history of chemistry, inspire the next

generation of great scientists.

Janice VanCleave once again ignites children's love for science in her all-new book of fun experiments featuring a fresh format, new experiments, and updated content standards From everyone's favorite science teacher comes Janice VanCleave's Big Book of Science Experiments. This user-friendly book gets kids excited about science with lively experiments designed to spark imaginations and encourage science learning. Using a few handy supplies, you will have your students exploring the wonders of science in no time. Simple step-by-step instructions and color illustrations help you easily demonstrate the fundamental concepts of astronomy, biology, chemistry, and more. Children will delight in making their own slime and creating safe explosions as they learn important science skills and processes. Author Janice VanCleave passionately believes that all children can learn science. She has helped millions of students experience the magic and mystery of science with her time-tested, thoughtfully-designed experiments. This book offers both new and classic activities that cover the four dimensions of science physical science, astronomy, Biology, and Earth Science and provide a strong foundation in science education for students to build upon. An ideal resource for both classroom and homeschool environments, this engaging book: Enables students to experience science firsthand and discuss their observations Offers low-prep experiments that require simple, easily-obtained supplies Presents a modern, full-color design that appeals to students Includes new experiments, activities, and lessons Correlates to National Science Standards Janice VanCleave's Big Book of Science Experiments is a must-have book for the real-world classroom, as well as for any parent seeking to teach science to their children.

Concepts & Calculations in Analytical Chemistry: A Spreadsheet Approach offers a novel approach to learning the fundamentals of

chemical equilibria using the flexibility and power of a spreadsheet program. Through a conceptual presentation of chemical principles, this text will allow the reader to produce and digest large assemblies of numerical data/calculations while still focusing on the chemistry. The chapters are arranged in a logical sequence, identifying almost every equilibrium scenario that an analytical chemist is likely to encounter. The spreadsheet calculations and graphics offer an excellent solution to otherwise time-consuming operations. Worked examples are included throughout the book, and student-tested problems are featured at the end of each chapter. Spreadsheet commands for QuattroPro, Quattro, and Lotus 1-2-3 are embedded in the text. Concepts & Calculations in Analytical Chemistry: A Spreadsheet Approach has been designed to serve both as a supplement to an undergraduate quantitative analysis course or as a text in a graduate-level advanced analytical chemistry course. Professional chemists will also find this to be an excellent introduction to spreadsheet applications in the lab and a modern overview of analytical chemistry in a self-study format.

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