

# Chemistry Experiments For Children Dover Childrens Science Books

The Periodic Table Kids & Chemistry Hands-on  
Activities and Demonstrations Science Around the  
House Prehistoric Beasts of the Ice Age Biology  
Experiments for Children Chemical  
Demonstrations Pierre Curie The Science  
Book Detonation Chemistry Experiments for  
Children The Golden Book of Chemistry  
Experiments Elements Chemical Magic Soap-  
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Experiments Entertaining Science Experiments with  
Everyday Objects The Pocket Book of Garden  
Experiments My First Human Body Book Pop Bottle  
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Kitchen Pantry Scientist Chemistry for Kids Science  
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KITCHEN CHEMISTRY Projects Electricity Experiments  
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Children Matter Science Experiments! Chemistry in the  
Kitchen - Science for Kids - Children's Chemistry  
Books Safe and Simple Electrical Experiments Great  
Scientific Experiments Fun with Science Group Theory  
and Chemistry Cup and Saucer Chemistry

## **The Periodic Table**

Thirty-eight safe experiments for youngsters seven and up. All they need to perform these fun and fascinating exercises are common household items: aspirin, paper towels, vinegar, and more.

## **Kids & Chemistry Hands-on Activities and Demonstrations**

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

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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 CO<sub>2</sub> 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

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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.

### **Science Around the House**

Instructions on how to do demonstrations with electricity, magnetism, air pressure, and other scientific principles

### **Prehistoric Beasts of the Ice Age**

Book of experiments that has sections for astronomy, biology, chemistry, geology/geography, physics, and weather.

### **Biology Experiments for Children**

One of Italy's leading men of letters, a chemist by profession, writes about incidents in his life in which one or another of the elements figured in such a way as to become a personal preoccupation

### **Chemical Demonstrations**

In Amazing Kitchen Chemistry Projects You Can Build Yourself, kids ages 9 and up will experiment with kitchen materials to discover chemistry. Readers will learn about atoms, molecules, solids, liquids, gases, polymers, the periodic table, the important history of science, and much more. Along the way, they'll make goop, cause chemical reactions, and create delicious

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treats, and all of it will illustrate important chemistry concepts. Amazing Kitchen Chemistry Projects is a fun and exciting way for young readers to learn all about chemistry and become scientists right in the kitchen.

### **Pierre Curie**

Did you know that you can do science experiments even when outside the laboratory? Try these kitchen experiments that you can either do on your own or with the help of an adult! With this book around, there is no reason for learning to stop at any time! So what are you waiting for? Ask for a copy of this book today!

### **The Science Book**

The demonstrations capture interest, teach, inform, fascinate, amaze, and perhaps, most importantly, involve students in chemistry. Nowhere else will you find books that answer, "How come it happens? . . . Is it safe? . . . What do I do with all the stuff when the demo is over?" Shakhshiri and his collaborators offer 282 chemical demonstrations arranged in 11 chapters. Each demonstration includes seven sections: a brief summary, a materials list, a step-by-step account of procedures to be used, an explanation of the hazards involved, information on how to store or dispose of the chemicals used, a discussion of the phenomena displayed and principles illustrated by the demonstration, and a list of references. You'll find safety emphasized throughout the book in each demonstration.

## **Detonation**

The Elements has become an international sensation, with over one million copies in-print worldwide. The highly-anticipated paperback edition of The Elements is finally available. An eye-opening, original collection of gorgeous, never-before-seen photographic representations of the 118 elements in the periodic table. The elements are what we, and everything around us, are made of. But how many elements has anyone actually seen in pure, uncombined form? The Elements provides this rare opportunity. Based on seven years of research and photography, the pictures in this book make up the most complete, and visually arresting, representation available to the naked eye of every atom in the universe. Organized in order of appearance on the periodic table, each element is represented by a spread that includes a stunning, full-page, full-color photograph that most closely represents it in its purest form. For example, at  $-183^{\circ}\text{C}$ , oxygen turns from a colorless gas to a beautiful pale blue liquid. Also included are fascinating facts, figures, and stories of the elements as well as data on the properties of each, including atomic weight, density, melting and boiling point, valence, electronegativity, and the year and location in which it was discovered. Several additional photographs show each element in slightly altered forms or as used in various practical ways. The element's position on the periodic table is pinpointed on a mini rendering of the table and an illustrated scale of the element's boiling and/or melting points appears on each page along with a density scale that

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runs along the bottom. Packed with interesting information, this combination of solid science and stunning artistic photographs is the perfect gift book for every sentient creature in the universe. Includes a tear-out poster of Theodore Gray's iconic Photographic Periodic Table!

### **Chemistry Experiments for Children**

Engineering is what brings machines to life. Little learners can discover more about engineering at home by reading the simple explanations and doing the beautifully illustrated activities on each page. Start a lifelong passion for STEM subjects and inspire children to, one day, contribute an invention of their own to the world.

### **The Golden Book of Chemistry Experiments**

Comprehensive review of detonation explores the "simple theory" and experimental tests of the theory; flow in a reactive medium; steady detonation; the nonsteady solution; and the structure of the detonation front. 1979 edition.

### **Elements**

Science has never been so easy--or so much fun! With The Everything Kids' Science Experiments Book, all you need to do is gather a few household items and you can recreate dozens of mind-blowing, kid-tested science experiments. High school science teacher

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Tom Robinson shows you how to expand your scientific horizons--from biology to chemistry to physics to outer space. You'll discover answers to questions like: Is it possible to blow up a balloon without actually blowing into it? What is inside coins? Can a magnet ever be "turned off"? Do toilets always flush in the same direction? Can a swimming pool be cleaned with just the breath of one person? You won't want to wait for a rainy day or your school's science fair to test these cool experiments for yourself!

### **Chemical Magic**

With more than 80 experiments for the whole family to discover and enjoy, The Pocket Book of Garden Experiments contains easy-to-follow instructions for activities that will stretch your imagination and bring out your inner scientist.

- x Make an ecosystem in a jar
- x Find out why leaves change colour
- x Turn potatoes into slime
- x Calculate the heights of trees
- x Make a sound map of your garden

Each experiment takes inspiration from the natural world and the fascinating things that live in it.

### **Soap-bubbles**

Here's the most entertaining way for children to get a good look at the human body and learn how bodies work: 28 fun and instructive, ready-to-color illustrations. Coordinating text explores the muscular, skeletal, nervous, digestive, respiratory, and immune systems, and answers such questions as What is a hiccup? and Where is my DNA?



## **Elements of Chemistry**

Over 100 projects demonstrate composition of objects, how substances are affected by various forms of energy — heat, light, sound, electricity, etc. Over 100 illustrations.

## **Cool Science Experiments**

Gives directions for simple experiments which demonstrate the principles of magnetism, electricity, electronics, and nuclear energy.

## **Entertaining Science Experiments with Everyday Objects**

This charmingly illustrated book shows kids how to conduct basic science experiments using recycled household items. They'll learn about sound waves by making their own kazoos and build a battery, birdbath, windsock, and other items.

## **The Pocket Book of Garden Experiments**

Easy-to-follow instructions, clear illustrations for 50 safe, science-related tricks: making squares and lines disappear, creating a magical doorway out of paper, cutting glass with scissors, and much more.

## **My First Human Body Book**

Award-winning author Clifford A. Pickover gathers into one fully illustrated volume the most important

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thinkers and ideas in the history of science. This unique omnibus edition includes 250 thoughtfully selected entries from many of the science-based books in the Sterling Milestones series, from biology and chemistry to engineering, math, and physics. Featuring a new introduction by Pickover, The Science Book showcases humanity's greatest achievements.

### **Pop Bottle Science**

Experiments provide first-hand knowledge through the act of doing and observing. Since this is for beginner chemistry, there won't be any need to handle dangerous substances. Rather, the purpose of this book is to use everyday materials to induce a learning of chemicals, bonds and reactions. Are you ready to get into chemistry? Then buy a copy today!

### **Experiments in Topology**

Gives directions for many simple chemistry experiments, including descriptions of necessary equipment, principles, techniques, and safety precautions.

### **Chemical Reactions!**

Directions for simple experiments which require only a microscope and household objects to prove some basic scientific facts about plants, animals, and human beings.

### **Chemical Magic from the Grocery Store**

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"This book contains sixty activities, many of which can be used by teachers of all grades. Teachers and parents with little or no background in science or chemistry can understand and conduct these activities. Students can do them, too, if supervision is provided. The catchy title of each activity and the 'magic show' approach are meant to capture attention, arouse curiosity, and dispel chemophobia" -- Preface, v.

### **STEM Starters for Kids Engineering Activity Book**

Vivid, readable, accurate tales of landmark inquiries include Aristotle's work on embryology of the chick, Galileo's discovery of the law of descent, Newton's experiment on nature of colors, more.

### **Creative Chemistry Experiments - Chemistry Book for Beginners | Children's Science Experiment Books**

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

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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.

### **The Everything Kids' Science Experiments Book**

Matter: Physical Science for Kids from the Picture Book Science series gets kids excited about science! What's the matter? Everything is matter! Everything you can touch and hold is made up of matter—including you, your dog, and this book! Matter is stuff that you can weigh and that takes up space, which means pretty much everything in the world is made of matter. In Matter: Physical Science for Kids, kids ages 5 to 8 explore the definition of matter and the different states of matter, plus the stuff in our world that isn't matter, such as sound and light! In this nonfiction picture book, children are introduced to physical science through detailed illustrations paired with a compelling narrative that uses fun language to convey familiar examples of real-world science connections. By recognizing the basic physics concept of matter and identifying the different ways matter appears in real life, kids develop a fundamental understanding of physical

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science and are impressed with the idea that science is a constant part of our lives and not limited to classrooms and laboratories. Simple vocabulary, detailed illustrations, easy science experiments, and a glossary all support exciting learning for kids ages 5 to 8. Perfect for beginner readers or as a read aloud nonfiction picture book! Part of a set of four books in a series called Picture Book Science that tackles different kinds of physical science (waves, forces, energy, and matter), Matter offers beautiful pictures and simple observations and explanations. Quick STEM activities such as weighing two balloons to test if air is matter help readers cross the bridge from conceptual to experiential learning and provide a foundation of knowledge that will prove invaluable as kids progress in their science education. Perfect for children who love to ask, "Why?" about the world around them, Matter satisfies curiosity while encouraging continual student-led learning.

### **Science Magic Tricks**

### **Factors of Soil Formation**

A prominent popular science writer presents simple instructions for 100 illustrated experiments. Memorable, easily understood experiments illuminate principles related to astronomy, chemistry, physiology, psychology, mathematics, topology, probability, acoustics, other areas.

### **The Kitchen Pantry Scientist Chemistry**

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### **for Kids**

A complete kit that ingeniously marries science and fun, this perfect miniature science lab--complete with a fully illustrated 96-page guide--presents 79 easy, hands-on experiments that probe the worlds of chemistry, physics, biology, geology, weather, the human body, and even astronomy. Consumable.

### **Science Experiments and Amusements for Children**

Classic guide provides intriguing entertainment while elucidating sound scientific principles, with more than 100 unusual stunts: cold fire, dust explosions, a nylon rope trick, a disappearing beaker, much more.

### **Amazing KITCHEN CHEMISTRY Projects**

Kids will have fun coloring while learning about the saber-toothed cat, woolly mammoth, and giant ground sloth as well as flightless birds and giant lizards. Includes 44 images with descriptive captions.

### **Electricity Experiments for Children**

Classic, lively explanation of one of the byways of mathematics. Klein bottles, Moebius strips, projective planes, map coloring, problem of the Koenigsberg bridges, much more, described with clarity and wit.

### **Physics Experiments for Children**

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Illustrated directions for experiments with static electricity, magnetism, current electricity, and electromagnetism.

### **Matter**

Did you eat toast this morning? Did your family have a fire in your fireplace last night? Those are both chemical reactions! In *Chemical Reactions! With 25 Science Projects for Kids*, readers ages 7 to 10 learn about the atoms and molecules that make up everything in our world and what happens when different atoms and molecules come in contact with each other. Hands-on STEM activities include exploring candy chromatography, making ice cream, and creating a hydrophobic tower.

### **Science Experiments! Chemistry in the Kitchen - Science for Kids - Children's Chemistry Books**

Antoine Lavoisier's great accomplishments include the discovery of oxygen's role in combustion, helping to develop the metric system, writing the first extensive list of elements, helping to reform the nomenclature of chemistry, and the discovery that while matter may change shape through chemical reaction its mass remains the same. It is for these extraordinary accomplishments that he is often referred to as the "Father of Modern Chemistry." Some scholars argue that this moniker is more the result of self-promotion and that his discoveries relied heavily on the work of others, nonetheless his impact

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on advancing this field of science cannot be understated. "Elements of Chemistry" was first published in 1790 and is largely concerned with the chemistry of combustion. While modern students of chemistry might find the work limited in its scope, the historical impact of its publication cannot be understated. The experiments contained within helped to lay the foundation for the understanding of the role of oxygen, hydrogen, acids, and alcohols in chemical reactions and its emphasis on quantitative analysis and instrumentation helped to establish the use of chemistry as a legitimate science for understanding and defining the physical world.

### **Safe and Simple Electrical Experiments**

### **Great Scientific Experiments**

Concise, self-contained introduction to group theory and its applications to chemical problems. Symmetry, matrices, molecular vibrations, transition metal chemistry, more. Relevant math included. Advanced-undergraduate/graduate-level. 1973 edition.

### **Fun with Science**

Presents procedures for seventy-three elementary, scientific experiments and explains the results

### **Group Theory and Chemistry**

Masterpiece offers a detailed discussion of the nature



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of the earth's terrestrial environment, and a method of subdividing and studying it. 1941 edition.

### **Cup and Saucer Chemistry**

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