

Fun Easy Chemical Reaction Experiments High School

The experiments in these books--easy and fun science experiments using household materials--are perfect starting points for science fair projects that support the Science school curriculum. Provides illustrations and step-by-step instructions for over sixty experiments to explore science in the kitchen.

Make your child's first forays into science fun! 52 clever and easy experiments for things that will zip, zoom, and fly, and fizz, bubble, and burst. For children ages 4 to 8. Introduce future engineers, inventors, naturalists, and artists to the physics and chemistry, biology and ecology behind everyday play. Create chemical reactions, explore gravity and friction, transform states of matter, play with air pressure, and much more through 52 simple experiments that zip and zoom, fly and fizz, bubble and burst. Geek mom Lynn Brunelle has created an interactive guide perfect for both kids and their parents: the projects will engage children, and the informative lessons will help parents when asked the inevitable question, why? The projects include: 1. The Exploding Lunch Bag: Will you get out of the way before the vinegar and baking soda react with a fizzy burst? 2. Seed Hunt: Seek out whirly, sticky, and smooth seeds for a science-filled outdoor adventure! 3. The Marshmallow Launcher: Harness energy to fling sugary treats in the name of science. 4. And many more!

With Sheet Pan Science, contain the mess and let the fun overflow with 25 safe, easy physics, biology, and chemistry projects. Each project in the book contains simple instructions, easy-to-understand science explanations, and step-by-step photographic guides. While a stovetop or freezer may occasionally be required, most steps of the experiments can be performed directly on a rimmed baking sheet. Messy play is important for young learners. Mixing colors, creating bubbly chemical reactions, and playing with goo are visual and tactile experiences that create strong memory pathways. In addition to allowing kids to explore and hone problem-solving skills, science experimentation encourages curiosity and engages a sense of wonder. A sheet pan and a few simple ingredients will instantly transform any kitchen countertop into a laboratory bench filled with fizzy fun. The projects in Sheet Pan Science cater to a wide range of interests. While some kids love getting their hands into cornstarch goo, others will enjoy creating colorful tie-dye milk. Using a lemon, aspiring geologists can test rock collections to see whether they contain limestone. Art lovers may gravitate towards fabric dyeing and leaf prints, while budding chefs can play with edible experiments. Ice Globe create a colorful explosion of carbon dioxide gas foaming from hollow frozen spheres. Engage your child with hours of science fun and learning.

Kitchen Science Lab for Kids

Fun & Easy Science Projects: Grade 3

You Can Build Yourself

Dad's Book of Awesome Science Experiments

Experiments You Can Do at Home - But Probably Shouldn't

Great Experiments and Ideas

40 Exciting Steam Activities for Kids

Science certainly does not need to be complicated formulas, heavy text books and geeky guys in white lab coats with thick glasses. Science can be really simple and is actually only about understanding the world you live in! Science experiments are an awesome part of science that allows you to engage in cool and exciting hands on learning experiences that you are sure to enjoy and remember! By working through the science projects in this book, you will learn about science in the best possible way – getting your hands dirty & doing things yourself! Specially chosen to appeal to kids in grade 6, each experiment answers a particular question about a specific category of science and includes an introduction, list of the materials you need, easy-to-follow steps, an explanation of what the experiment demonstrates as well as a learn more and science glossary section! Each of these easy-to-understand sections helps explain the underlying scientific concepts to kids and will inspire them to create their own related experiments and aid in developing an inquisitive mind. Amongst many others, you will simulate the refraction patterns of stars in the sky and learn about Astronomy, extract the starch from raw potatoes and break it up into sugar using basic chemical reactions, and remove static charges in clothing by grounding them to learn about the attraction & repulsion forces of static electricity! Other fun experiments include propelling a toy car with the power of a simple chemical reaction, making a spring balance to compare the weight of various objects, picking up heavy weights easily with a simple pulley system, studying the social organization of ants by making an ant farm and many, many more! The 40 projects contained in this science experiment e-book cover a wide range of scientific topics; from Chemistry and Electricity to Life Sciences and Physics... there are even experiments on earth science, astronomy and geology all designed for young students in grade 6! With this book, you are sure to find a project that interests you. When you are interested in a certain science topic, you will have more fun, and learn more, too! Designed with safety in mind, most of the items you will need for the experiments, such as jars, aluminium foil, scissors and sticky tape, you can find around your home. Others, such as magnets, lenses or a compass, you will be able to buy quite cheaply at a hobby shop or hardware store.

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. 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.

Full STEAM ahead!-21st-century chemistry for kids Chemistry for kids can be so much fun! Real Chemistry Experiments has 40 exciting and engaging experiments with a real-life STEAM (Science, Technology, Engineering, Art, Math) connection for kids. Become a better problem-solver, inventor, and innovator with these fascinating chemistry experiments. Each one has a clear purpose or question

that's being asked, step-by-step instructions, a list of materials you'll need, questions to help you record your observations, and more. By the time you're through, you'll have chemistry for kids down to a science! This book of chemistry for kids includes: Easy-to-find materials-From tap water and paper towels, to popsicle sticks and dish soap, the materials needed for these experiments are quick and easy to find. Real-life science-Learn the real chemistry behind how and why each experiment works, like why water and oil don't mix in Oily Oceans, how geodes form in Eggshell Geodes, and more. Chemistry basics-Get tons of info about chemistry and what it is, from the scientific method and the Periodic Table, to atoms and the five main areas of study. Imagine all the things you can learn, create, and discover in this colorful book about chemistry for kids-the sky's the limit!

The Ultimate Bitesize Study Guide

Real Chemistry Experiments

Easy Genius Science Projects with Chemistry

Big Science for Little People

101 Easy Experiments that Really Work

Experiments You Can Do in Your Kitchen

The Everything Kids' Science Experiments Book

The science behind, "But, why?" Don't get caught off guard by your kids' science questions! You and your family can learn all about the ins and outs of chemistry, biology, physics, the human body, and our planet with Dad's Book of Awesome Science Experiments. From Rock Candy Crystals to Magnetic Fields, each of these fun science projects features easy-to-understand instructions that can be carried out by even the youngest of lab partners, as well as awesome, full-color photographs that guide you through each step. Complete with 30 interactive experiments and explanations for how and why they work, this book will inspire your family to explore the science behind: Chemistry, with Soap Clouds Biology, with Hole-y Walls Physics, with Straw Balloon Rocket Blasters Planet Earth, with Acid Rain The Human Body, with Marshmallow Pulse Keepers Best of all, every single one of these projects can be tossed together with items around the house or with inexpensive supplies from the grocery store. Whether your kid wants to create his or her own Mount Vesuvius or discover why leaves change colors in the fall, Dad's Book of Awesome Science Experiments will bring out the mad scientists in your family--in no time!

Perform Mind-Blowing Science Experiments at Home! You'll have the time of your life conducting these incredible, wacky and fun experiments with your parents, teachers, babysitters and other adults. You'll investigate, answer your questions and expand your knowledge using everyday household items. The Quirky Mommas from the wildly popular Kids Activities Blog and authors of the bestselling 101 Kids Activities That Are the Bestest, Funnest Ever! have done it again with this book of ridiculously amazing, simple science experiments. You can do things both indoors and outdoors. The handy mess meter, preparation times and notes on the level of supervision will keep your parents happy, and you safe. Experimenting is really fun, and you will have a blast being a scientist! You will be so entertained, you might not notice you're also learning important things about the world around you. Some experiments to master: - Balloon-Powered Car - Burst Soap Clou - CD Hovercraft - Creeping Ink - Bendy Bones - Electromagnet - Paper Helicopters - Unbreakable Bubbles Now put on your lab coat and let's get experimenting!

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 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!

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.

Physics and Chemistry Experiments

Science Experiments and Amusements for Children

50 Fun and Safe Experiments for the Mad Scientist in You

Experiments with Chemistry

With 25 Science Projects for Kids

Mix It Up!

Soap scum, brown bananas, clumping milk, and swollen gummi bears are a few of the crazy, kooky, and quirky components of these chemistry experiments from renowned educator Janice VanCleave. Readers will be fascinated by all the principles of chemistry they can learn about by using items they have at home, including hydration, oxidation, expansion, viscosity, and more. Following safe, simple step-by-step instructions, students will have a blast performing each of these twenty-four experiments and gain real, demonstrable knowledge in the field of chemistry.

New learning activity books that help young children discover science -- easy and fun to use at home Science is fun and children are natural born scientists! And science teachers know that kids are ready for real science at a young age. That is why Science Kids Learning Activity Books are so important. This carefully designed series is a unique and fun source of real science for children ages 7 to 11 years old. We begin at the beginning, building molecules from atoms in Learning Activity Book 1, and move carefully through six books filled with easy-to-understand facts, diagrams and activities. Children "get it" right away. And everything they need is in the book -- no special materials are required. Used alone or as part of the complete series, each book offers hours of stimulating fun and discovery for young children. Keep an eye on Science Kids! We are planning a variety of outstanding science materials for young children, ages 7 and up. Milk, baking soda and tears are some familiar substances used to introduce children to the science of chemistry. Easy-to-do experiments demonstrate chemical reactions that are part of our everyday world.

"Experiments for young children to conduct to learn about science"--

Do you confuse boron with barium or chlorine with fluorine? Fear not! Basher Science has come to the rescue by mixing science and art to create a unique periodic table. From unassuming oxygen to devious manganese, the incredible elements show you the periodic table as you've never seen it before. Basher Science: The Periodic Table gives a face, voice and personality to the chemical elements, making learning chemistry easy and a whole lot more fun. This new expanded edition reflects the latest discoveries, and now each of the 115 elements has not just a picture but an information-packed page all to itself. Basher's highly original books make difficult concepts tangible, understandable and even lovable. With his stylish, contemporary characters he communicates science brilliantly.

Make It Change!

40 Fun Science Experiments for Grade 4 Learners

From Boiling Ice and Exploding Soap to Erupting Volcanoes and Launching Rockets, 30 Inventive Experiments to Excite the Whole Family!

Janice VanCleave's Crazy, Kooky, and Quirky Chemistry Experiments

Bartholomew and the Oobleck

Chemistry Experiments for Children

Amazing Chemistry Experiments Kids Will Love: Easy Chemistry Reactions Kids Can Do at Home

In a series of fun and involving hands-on chemistry experiments, kids learn how and why a volcano erupts, why there are holes in bread slices, why pennies turn green, how to separate milk into its solid and liquid parts, and how to grow fluffy white crystals. They will also determine and demonstrate how air is cleaned by absorbent chemicals, how to change hydrogen peroxide into water and oxygen with the help of a potato, and how and why evaporation takes away heat. Featuring color illustrations and safe, simple step-by-step instructions, Janice VanCleave again shows just how much fun science can be.

Science certainly does not need to be complicated formulas, heavy text books and geeky guys in white lab coats with thick glasses. Science can be really simple and is actually only about understanding the world you live in! Science experiments are an awesome part of science that allows you to engage in cool and exciting hands on learning experiences that you are sure to enjoy and remember! By working through the science projects in this book, you will learn about science in the best possible way – getting your hands dirty & doing things yourself! Specially chosen to appeal to kids in grade 3, each experiment answers a particular question about a specific category of science and includes an introduction, list of the materials you need, easy-to-follow steps, an explanation of what the experiment demonstrates as well as a learn more and science glossary section! Each of these easy-to-understand sections helps explain the underlying scientific concepts to kids and will inspire them to create their own related experiments and aid in developing an inquisitive mind. Amongst many others, you will send secret messages to your friends with your own invisible ink to understand how chemical reactions works, construct a rocket to see how objects fly, make a self-filling water bowl for pets using air pressure, and make a light bulb shine using a lemon as a battery to learn about electric current! Other fun experiments include growing your own crystals along a piece of string, making an electrical doorbell for your room, telling the time with your own water clock, cutting through ice with a string, making a spool 'walk' with the energy stored in an elastic band and many, many more!

The 40 projects contained in this science experiment e-book cover a wide range of scientific topics; from Chemistry and Electricity to Life Sciences and Physics... there are even experiments on earth science, astronomy and geology all designed for young students in grade 3! With this book, you are sure to find a project that interests you. When you are interested in a certain science topic, you will have more fun, and learn more, too! Designed with safety in mind, most of the items you will need for the experiments, such as jars, aluminium foil, scissors and sticky tape, you can find around your home. Others, such as magnets, lenses or a compass, you will be able to buy quite cheaply at a hobby shop or hardware store.

In a series of fun and involving hands-on chemistry experiments, kids observe the effect of molecular motion, try to inflate a balloon inside of a bottle, demonstrate the cleaning of water by capillary action, discover how detergent causes other molecules to move, and make water appear to boil with only the touch of a finger. They will also demonstrate how salt makes it harder for water to freeze, learn how to grow salt crystals and how to produce an elastic material, and observe liquids that will and will not mix together. Featuring color illustrations and safe, simple step-by-step instructions, Janice VanCleave again shows just how much fun science can be.

DIVAt-home science provides an environment for freedom, creativity and invention that is not always possible in a school setting. In your own kitchen, it's simple, inexpensive, and fun to whip up a number of amazing science experiments using everyday ingredients./divDIV /divDIVScience can be as easy as baking. Hands-On Family: Kitchen Science Lab for Kids offers 52 fun science activities for families to do together. The experiments can be used as individual projects, for parties, or as educational activities groups./divDIV /divKitchen Science Lab for Kids will tempt families to cook up some physics, chemistry and biology in their own kitchens and back yards. Many of the experiments are safe enough for toddlers and exciting enough for older kids, so families can discover the joy of science together.

Exploring Creation with Chemistry and Physics

Janice VanCleave's Big Book of Science Experiments

All Lab, No Lecture

Super Simple Chemistry

Fun & Easy Science Projects: Grade 1

25 Fun, Simple Science Experiments for the Kitchen Table; Super-Easy Setup and Cleanup

Janice VanCleave's Wild, Wacky, and Weird Chemistry Experiments

In a series of fun and involving hands-on chemistry experiments, kids learn how to measure the volume of melted snow, determine the weight of water, and demonstrate the effect that cold temperatures have on air density. They will also demonstrate how the density of different liquids varies, construct a hydrometer, demonstrate the cohesive force of water, and show how a chemical reaction can create heat. Featuring color illustrations and safe, simple step-by-step instructions, Janice VanCleave shows just how much fun science can be.

Help students explore the wonders of science with the mind-stretching activities in this packet. It includes a number of special features and fun, easy-to-prepare activities that cover topics in physics and chemistry. Clear, step-by-step instructions foster independent learning; guided questions help develop observation and critical thinking skills; fascinating facts and extension activities enrich learning.

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 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.

Provides instructions for sixteen simple experiments using common household materials to explore mixtures, solvents, water density, oxidation, and other topics in chemistry, and offers scientific explanations.

Theo Gray's Mad Science

Try This Extreme

Illustrated Guide to Home Chemistry Experiments

Classic Chemistry Demonstrations

Boil Ice, Float Water, Measure Gravity-Challenge the World Around You!

30 Fun Science Experiments for Grade 1 Learners

The 101 Coolest Simple Science Experiments

If you are looking for some fun, and interesting, activities to do with your kids then why not consider some of these great, and easy, home chemistry experiments. Become a better problem-solver with these fascinating chemistry experiments. Each one has a clear purpose or question that's being asked, step-by-step instructions, a list of materials you'll need, and more. By the time you're through, you'll be down to a science! This book of chemistry for kids includes: Alka Seltzer Rocket Eruptions Balloon Baking Soda Science Experiment Borax Crystals Baking Soda Volcano Much, much more!

These easy and fun chemistry experiments use easy-to-obtain household materials and are excellent starting points for students to devise their own science fair projects. Readers are guided through the steps to conduct experiments, such as examining Brownian motion of smoke particles, building an electric cell, and separating substances in a solution. Through clear instructions and scientific illustrations, you'll gain a better understanding of the basic concepts demonstrated by each experiment. This book also contains safety tips to educate students on the code of conduct expected when conducting experiments, a glossary, further reading with books and websites, and an index.

Seventy-three easy experiments — requiring only materials found at home or easily available, such as candles, coins, steel wool, etc. — illustrate basic phenomena like vacuum, simple chemical reactions, and more. Modern, well-planned.

Join Bartholomew Cubbins in Dr. Seuss's Caldecott Honor-winning picture book about a king's magical mishap! Bored with rain, sunshine, fog, and snow, King Derwin of Didd summons his royal magicians to do something new and exciting to fall from the sky. What he gets is a storm of sticky green goo called Oobleck—which soon wreaks havoc all over his kingdom! But with the assistance of the wise old wizard (along with young readers) learns that the simplest words can sometimes solve the stickiest problems.

Janice VanCleave's Chemistry for Every Kid

Basher Science: The Complete Periodic Table

Chemical Reactions!

83 Hands-on S.T.E.A.M Experiments for Curious Kids!

Incredible Experiments with Chemical Reactions and Mixtures

The Science of Chemistry

Good Housekeeping Amazing Science

Classic Chemistry Demonstrations is an essential, much-used resource book for all chemistry teachers. It is a collection of chemistry experiments, many well-known others less so, for demonstration in front of a class of students from school to undergraduate age. Chemical demonstrations fulfil a number of important functions in the teaching process where practical class work is not possible. Demonstrations are often spectacular and therefore stimulating and motivating, they allow the students to see an experiment which they otherwise would not be able to share, and they allow the students to see a skilled practitioner at work. Classic Chemistry Demonstrations has been written by a teacher with several years' experience. It includes many well-known experiments, because these will be useful to new chemistry teachers or to scientists from other disciplines who are teaching some chemistry. They have all been trialled in schools and colleges, and the vast majority of the experiments can be carried out at normal room temperature and with easily accessible equipment. The book will prove its worth again and again as a regular source of reference for planning lessons. Science certainly does not need to be complicated formulas, heavy text books and geeky guys in white lab coats with thick glasses. Science can be really simple and is actually only about understanding the world you live in! Science experiments are an awesome part of science that allows you to engage in cool and exciting hands on learning experiences that you are sure to enjoy and remember! By working through the science projects in this book, you will learn about science in the best possible way - getting your hands dirty & doing things yourself! Specially chosen to appeal to kids in grade 4, each experiment answers a particular question about a specific category of science and includes an introduction, list of the materials you need, easy-to-follow steps, an explanation of what the experiment demonstrates as well as a learn more and science glossary section! Each of these easy-to-understand sections helps explain the underlying scientific concepts to kids and will inspire them to create their own related experiments and aid in developing an inquisitive mind. Amongst many others, you will make caramel from sugar to understand how chemical reactions works, balance forks on a string with the science of levers, make a compass to learn about the attraction & repulsion forces of magnetism! Other fun experiments include Using simple chemistry to make your dull coins shine again, learn how to generate electricity by means of induction, make your own homemade perfume, studying how a water turbine works with a milk carton, using the sun's infra-red rays to cook a potato, mapping how far the sun is from the moon, studying if moth cocoons can survive freezing temperatures, using a balloon filled with carbon dioxide to amplify sound waves and many, many more! The 40 projects contained in this science experiment e-book cover a wide range of scientific topics; from Chemistry and Electricity to Life Sciences and Physics... there are even experiments on earth science, astronomy and geology all designed for young students in grade 4! With this book, you are sure to find a project that interests you. When you are interested in a certain science topic, you will have more fun, and learn more, too! Designed with safety in mind, most of the items you will need for the experiments, such as jars, aluminium foil, scissors and sticky tape, you can find around your home. Others, such as magnets, lenses or a compass, you will be able to buy quite cheaply at a hobby shop or hardware store.

Awesome S.T.E.A.M.-based science experiments you can do right at home with easy-to-find materials designed for maximum enjoyment, learning, and discovery for kids ages 8 to 12 Join the experts at the Good Housekeeping Institute Labs and explore the science you interact with every day. Using the scientific method, you'll tap into your own super-powers of logic and deduction to go on a science adventure. The engaging experiments exemplify core concepts and range from quick and simple to the more complex. Each one includes clear step-by-step instructions and color photos that demonstrate the process and end result. Plus, secondary experiments encourage young readers to build on what they've discovered. A "Mystery Solved!" explanation of the science at work helps your budding scientist understand the outcomes of each experiment. These super-fun, hands-on experiments include: • Building a solar oven and making s'mores • Creating an active rain cloud in a jar • Using static electricity created with a balloon to power a light bulb • Growing your own vegetables—from scraps! • Investigating the forces that make an object sink or float • And so much more! Bursting with more than 200 color photos and incredible facts, this sturdy hard cover is the perfect gift for any aspiring biologist, chemist, physicist, engineer, and mathematician!

Illustrated Guide to Home Chemistry Experiments All Lab, No Lecture"O'Reilly Media, Inc."

Awesome Things To Do With Your Parents, Babysitters and Other Adults

Even More of Janice VanCleave's Wild, Wacky, and Weird Chemistry Experiments

Science Book for Kids

More of Janice VanCleave's Wild, Wacky, and Weird Chemistry Experiments

52 Activities to Help You & Your Child Discover the Wonders of Science

Sheet Pan Science

Hands-On Science

Why do newspapers turn yellow? How does bleach make colors disappear? Why can't you mix oil and water? Find out the answers to these and other mysteries of chemistry in this fascinating collection of experiments and activities that teach the basics of chemistry theory and practice. Turn steel wool into a glutinous green blob. Separate an egg from its shell without breaking the shell. Make copper pennies turn blue. Learn simple chemistry from a solution of colored water, and the behavior of gases with the help of a soda bottle. Through these and other activities, you'll explore the structure of matter, the world of solutions . . . and much more. You'll find most of the materials you need around the house or classroom. Every activity has been pretested and can be performed safely and cheaply in the classroom, at home. Also available in this series from Janice VanCleave: * ASTRONOMY FOR EVERY KID * BIOLOGY FOR EVERY KID * DINOSAURS FOR EVERY KID * EARTH SCIENCE FOR EVERY KID * GEOGRAPHY FOR EVERY KID * GEOMETRY FOR EVERY KID * THE HUMAN BODY FOR EVERY KID * MATH FOR EVERY KID * PHYSICS FOR EVERY KID.

Science certainly does not need to be complicated formulas, heavy text books and geeky guys in white lab coats with thick glasses. Science can be really simple and is actually only about understanding the world. Science experiments are an awesome part of science that allows you to engage in cool and exciting hands on learning experiences that you are sure to enjoy and remember! By working through this book, you will learn about science in the best possible way – getting your hands dirty & doing things yourself! Specially chosen to appeal to kids in grade 1, each experiment answers a particular question in a category of science and includes an introduction, list of the materials you need, easy-to-follow steps, an explanation of what the experiment demonstrates as well as a learn more and science glossary. This easy-to-understand sections helps explain the underlying scientific concepts to kids and will inspire them to create their own related experiments and aid in developing an inquisitive mind. Amongst the experiments: make water in a glass by the weight of the air to understand how air pressure works, construct a Paper Plane to understand how objects fly, make it rain using a kettle to experiment with environmental science, make objects float on top of each other to learn about the attraction & repulsion forces of magnetism! Other fun experiments include testing for the presence of iron in breakfast cereals, making your own lava lamp, testing if you taste better with your nose or mouth, learning how osmosis work, mummifying an orange, testing the best conductors of sound, confusing your own brain and many, many more! This science experiment e-book cover a wide range of scientific topics; from Chemistry and Electricity to Life Sciences and Physics... there are even experiments on earth science, astronomy and geology for young students in grade 1! With this book, you are sure to find a project that interests you. When you are interested in a certain science topic, you will have more fun, and learn more, too! Designated as a science experiment, the items you will need for the experiments, such as jars, aluminium foil, scissors and sticky tape, you can find around your home. Others, such as magnets, lenses or a compass, you will be able to find at a hobby shop or hardware store.

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 17 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 Extract 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 on 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 disappeared 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 with the necessary 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 Solution Properties of Solutions Introduction to Chemical Reactions & Stoichiometry Reduction-Oxidation (Redox) Reactions Acid-Base Chemistry Chemical Kinetics Chemical Equilibrium and Le Chatelier's Principle Organic Chemistry Thermochemistry and Calorimetry Electrochemistry Photochemistry Colloids and Suspensions Qualitative Analysis Quantitative Analysis Synthesis of Useful Compounds Forensic Chemistry. The book includes 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 advanced level 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 a 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 analysis -- is a must for the many thousands of young people and adults who want to experience the magic of chemistry.

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

Fun & Easy Science Projects: Grade 6

The Golden Book of Chemistry Experiments

40 Fun Science Experiments for Grade 6 Learners

Amazing KITCHEN CHEMISTRY Projects

52 Family Friendly Experiments from Around the House

Many More of Janice VanCleave's Wild, Wacky, and Weird Chemistry Experiments

40 Fun Science Experiments for Grade 3 Learners

A fantastic aid for coursework, homework, and studying for tests, this comprehensive guide covers Next Generation Science Standards, for grades 6-10 and will have you ready for tests and exams in no time. Each topic is fully illustrated to support the information, make the facts crystal clear, and bring the science to life. A large central image explains the idea visually and each topic is summed up on a single page, helping children to quickly get up to speed and really understand how chemistry works. Information boxes explain the theory with the help of simple graphics and for further studying, a handy "Key Facts" box provides a simple summary you can check back on later. With clear, concise coverage of all the core topics, SuperSimple Chemistry is the perfect accessible guide to chemistry for children, supporting classwork, and making studying for exams the easiest it's ever been.

Features different science projects, including turning a penny green, making salt disappear and reappear, and making butter.

Details fifty-five experiments ranging from simply making ice that sinks to copper plating iPods and building spark plugs.

Fun & Easy Science Projects: Grade 4