

100 science experiments for kids

****100 Science Experiments for Kids: Fun, Learning, and Exploration****

100 science experiments for kids can open up a whole new world of wonder and discovery for children of all ages. Whether you're a parent, teacher, or caregiver, engaging kids in hands-on science activities sparks curiosity and encourages critical thinking. These experiments don't just entertain—they help build foundational knowledge in physics, chemistry, biology, and earth sciences. Plus, many of them use everyday household items, making science accessible and affordable for everyone.

Exploring the fascinating realm of science through simple experiments inspires kids to ask questions, test hypotheses, and observe results. This article will guide you through diverse science projects that cover everything from explosive volcanoes to invisible ink. Along the way, you'll find tips on how to keep your young scientists motivated and safe while having a blast with learning.

Why Hands-On Science Experiments Matter for Kids

Children learn best by doing, and science experiments provide the perfect opportunity for experiential learning. Through direct involvement, kids develop problem-solving skills and learn to think like scientists. Moreover, these activities promote creativity and collaboration, especially when done in groups. Conducting experiments also improves manual dexterity and introduces basic scientific terminology in a natural way.

Using simple materials to demonstrate complex scientific concepts makes science less intimidating. For example, making a homemade lava lamp teaches about density and chemical reactions, while growing crystals shows the process of crystallization in a visually striking manner. This practical approach helps solidify abstract ideas in young minds.

Categories of 100 Science Experiments for Kids

To keep the learning journey organized and engaging, 100 science experiments for kids can be grouped into several thematic categories. Each category targets specific scientific principles and skills:

1. Chemistry Experiments

Chemistry experiments allow kids to explore reactions, mixtures, and properties of substances. These activities help children understand changes in matter and the basics of acids, bases, and molecules.

- ****Baking Soda and Vinegar Volcano****: A classic demonstration of an acid-base reaction producing carbon dioxide gas.

- **Rainbow Milk**: Using dish soap to break surface tension in milk and create swirling colors.
- **Invisible Ink**: Writing secret messages with lemon juice that appear when heated.

These experiments often involve colorful visuals and surprising results, keeping kids intrigued.

2. Physics Experiments

Physics projects focus on forces, motion, energy, and light. They encourage kids to explore how the physical world operates through observation and experimentation.

- **Balloon Rocket**: Demonstrates Newton's third law of motion by launching a balloon along a string.
- **Homemade Pendulum**: Shows gravity and periodic motion.
- **Paper Airplane Flight Tests**: Investigates aerodynamics and flight principles.

Physics experiments foster a better understanding of everyday phenomena and encourage analytical thinking.

3. Biology Experiments

Biology experiments introduce kids to living organisms, their environments, and biological processes.

- **Plant Growth Observation**: Growing beans in a transparent container to watch roots develop.
- **Microscopic Pond Water Exploration**: Using a simple microscope or magnifying glass to discover microorganisms.
- **Egg in Vinegar (Naked Egg)**: Demonstrating how vinegar dissolves eggshells, showing osmosis and membrane permeability.

These experiments nurture an appreciation for life sciences and ecology.

4. Earth Science Experiments

Exploring earth science helps kids learn about geology, weather, and environmental science.

- **Homemade Weather Station**: Measuring wind speed, rainfall, and temperature.
- **Erosion in a Jar**: Simulating how water shapes landscapes.
- **Rock Sorting**: Classifying different types of rocks and minerals.

Understanding Earth's processes empowers kids to think about environmental stewardship.

5. Engineering and Technology Experiments

Engineering activities challenge kids to design, build, and test devices, fostering innovation and problem-solving skills.

- **Building a Simple Bridge**: Using popsicle sticks to explore load-bearing structures.
- **Water Bottle Rockets**: Launching pressurized rockets with water and air.
- **Electric Circuits with a Battery and LED**: Introducing basic electricity concepts.

These projects ignite creativity and can inspire future inventors and engineers.

Safety Tips for Science Experiments at Home or School

While science experiments are exciting, safety should always be a priority, especially with young children. Here are some key guidelines:

- Always supervise children, particularly when using heat, sharp objects, or chemicals.
- Use non-toxic, household materials whenever possible.
- Wear protective gear like goggles and gloves if necessary.
- Keep a first aid kit nearby.
- Teach kids to handle materials carefully and clean up after experiments.

Encouraging responsible experimentation helps kids develop respect for science and safety.

How to Make Science Experiments Engaging and Educational

To get the most out of 100 science experiments for kids, consider these tips:

- **Ask Open-Ended Questions**: Encourage kids to predict outcomes and explain their observations.
- **Keep a Science Journal**: Have children record hypotheses, steps, and results.
- **Connect to Real Life**: Relate experiments to everyday experiences or current events.
- **Use Visuals and Stories**: Storytelling can make scientific concepts more relatable.
- **Celebrate Mistakes**: Teach that unexpected results are part of the scientific process.

These strategies make science both fun and intellectually stimulating.

Examples of Simple and Engaging Science Experiments for Kids

Here are some easy-to-do experiments that you can try right now:

Homemade Slime

Mix glue, water, and borax solution to create slime. This experiment teaches about polymers and non-Newtonian fluids. Kids love the tactile experience of stretching and molding slime.

Egg Drop Challenge

Design protective containers to prevent an egg from breaking when dropped from a height. This activity introduces concepts of impact, force distribution, and engineering design.

Static Electricity Butterfly

Cut a paper butterfly and charge a balloon by rubbing it on hair or fabric. The butterfly's wings will move when near the balloon, demonstrating static electricity.

Where to Find Resources for 100 Science Experiments for Kids

Many websites, books, and educational kits offer detailed instructions and materials lists for science experiments. Some excellent sources include:

- Science museums' educational sections online
- STEM activity books for children
- Educational YouTube channels with experiment tutorials
- Local library science kits
- Teacher resource sites with printable guides

Using trusted resources ensures experiments are age-appropriate and safe.

Encouraging Lifelong Curiosity through Science

The beauty of 100 science experiments for kids lies in their ability to transform ordinary moments into extraordinary learning experiences. When children engage with science in a hands-on, enjoyable way, they build confidence and a passion for discovery that can last a lifetime. Whether it's a backyard project or a classroom activity, every experiment nurtures a young mind eager to understand the world.

Embracing the role of a science mentor—offering guidance, asking thoughtful questions, and celebrating curiosity—helps children see themselves as capable scientists. So gather your materials, roll up your sleeves, and dive into the exciting world of science with these 100 engaging experiments. The adventure of exploration is just a test tube away!

Frequently Asked Questions

What are some easy science experiments for kids from the '100 Science Experiments for Kids' book?

Some easy experiments include making a baking soda and vinegar volcano, creating a rainbow in a jar using different liquids, and growing crystals from salt or sugar solutions.

How can '100 Science Experiments for Kids' help in homeschooling?

The book provides a variety of hands-on activities that make learning science fun and interactive, helping parents teach scientific concepts effectively at home.

Are the experiments in '100 Science Experiments for Kids' safe for young children?

Yes, the experiments are designed with safety in mind, using common household items and simple procedures suitable for kids under adult supervision.

What age group is '100 Science Experiments for Kids' most suitable for?

The experiments are generally suitable for children aged 5 to 12 years, with some activities adaptable for older or younger kids depending on guidance.

Do the experiments in '100 Science Experiments for Kids' require special materials?

Most experiments use everyday household items like baking soda, vinegar, food coloring, and simple craft supplies, making them easy to set up without special materials.

How do the experiments in '100 Science Experiments for Kids' promote learning?

They encourage curiosity, critical thinking, and understanding of scientific principles through hands-on activities that demonstrate concepts in physics, chemistry, biology, and earth science.

Can '100 Science Experiments for Kids' be used in classroom settings?

Yes, teachers can use the book to design engaging science lessons and activities that align with curriculum standards and foster student participation.

Are there any experiments related to environmental science in '100 Science Experiments for Kids'?

Yes, the book includes experiments on topics like water filtration, plant growth, and the effects of pollution which teach kids about environmental science and conservation.

How long do the experiments in '100 Science Experiments for Kids' typically take?

Experiment duration varies, with some taking just a few minutes and others requiring several hours or days, such as growing crystals or observing plant growth.

Does '100 Science Experiments for Kids' explain the science behind each experiment?

Yes, each experiment includes a simple explanation of the scientific concepts involved, helping kids understand not just how but why things happen.

Additional Resources

100 Science Experiments for Kids: Inspiring Curiosity and Learning Through Hands-On Exploration

100 science experiments for kids form a foundational gateway to nurturing curiosity, critical thinking, and a genuine interest in STEM fields from a young age. As educators and parents increasingly seek engaging, educational activities, a diverse collection of experiments helps children explore fundamental scientific concepts while developing problem-solving skills. This article investigates a comprehensive range of science experiments tailored for children, emphasizing their educational value, accessibility, and safety considerations.

Understanding the Importance of Science Experiments for Children

Scientific experiments designed for kids offer more than just entertainment; they provide an interactive platform to learn complex theories in a digestible manner. By participating in hands-on activities, children can observe cause-and-effect relationships, develop hypotheses, and gain firsthand experience with scientific methods. Moreover, early exposure to science experiments fosters a lifelong appreciation for inquiry and discovery, which is crucial in an increasingly technology-driven society.

When selecting from 100 science experiments for kids, it is essential to consider age-appropriateness, ease of setup, and the educational objectives of each activity. Experiments that integrate everyday household items not only reduce costs but also make science more accessible. For instance, using vinegar and baking soda to demonstrate chemical reactions or exploring buoyancy with simple objects can captivate young learners without requiring specialized equipment.

Categories of Science Experiments Suitable for Kids

Science experiments for children span various disciplines, each offering unique learning opportunities. Here, we explore major categories within the 100 science experiments for kids to highlight their educational scope and practical applications.

Chemistry Experiments

Chemical reactions can be visually striking and easy to set up, making chemistry a popular choice. Experiments like the classic volcano eruption using baking soda and vinegar illustrate acid-base reactions. Other activities, such as making slime or observing the color changes in red cabbage juice pH tests, teach children about polymers and acidity/basicity.

Pros:

- Visibly dynamic and engaging.
- Teaches fundamental concepts of matter and reactions.
- Often uses safe, household materials.

Cons:

- Requires supervision to ensure safety.
- Some chemical reactions may produce odors or mess.

Physics Experiments

Physics experiments for kids introduce principles like motion, gravity, and energy. Building simple machines such as levers or pulleys helps children understand mechanical advantage. Balloon rockets and pendulum swings illustrate forces and motion in an interactive way.

Benefits of physics experiments include fostering an understanding of physical laws through tangible experiences. They encourage analytical thinking and can be adapted to various age groups by adjusting complexity.

Biology Experiments

Biology-focused experiments allow children to explore living organisms and natural processes. Growing plants from seeds, observing microorganisms under a microscope, or dissecting flowers to

identify parts teach biological concepts and appreciation for life sciences.

These experiments develop observational skills and patience, as biological processes often require time to manifest. They also promote environmental awareness and responsibility.

Earth and Environmental Science Experiments

Experiments in this category help kids learn about geology, weather, and ecosystems. Creating a mini water cycle in a plastic bag or simulating erosion with soil and water provides practical understanding of natural phenomena.

Such activities emphasize the interconnectedness of Earth's systems and can inspire stewardship of the environment, which is increasingly relevant amid global ecological concerns.

Technology and Engineering Experiments

Integrating basic engineering challenges like building bridges from popsicle sticks or creating circuits with batteries and bulbs introduces technology concepts. These experiments develop creativity, design thinking, and problem-solving skills.

They offer a glimpse into the practical application of science and encourage iterative learning through trial and error.

Sample Experiments from the 100 Science Experiments for Kids Collection

Below are selected examples illustrating the diversity and educational potential within the 100 science experiments for kids.

1. **Egg Drop Challenge:** Children design protective containers to prevent an egg from breaking when dropped, teaching physics of impact and material science.
2. **Magnet Exploration:** Using different magnets to test attraction and repulsion, introducing magnetism principles.
3. **Invisible Ink:** Writing messages with lemon juice and revealing them by heat, demonstrating chemical changes.
4. **Homemade Compass:** Magnetizing a needle and floating it on water to find magnetic north, linking to Earth's magnetic field.
5. **Water Density Tower:** Layering liquids of varying densities like honey, water, and oil to explore density concepts.

Each of these experiments requires minimal materials, can be conducted safely at home or school, and stimulates inquiry by encouraging children to ask why and how.

Factors to Consider When Choosing Science Experiments for Kids

Selecting appropriate experiments from a wide selection of 100 science experiments for kids involves balancing several key factors:

Age and Skill Level

Experiments must match children's developmental stages to avoid frustration or safety hazards. Simple cause-effect activities suit younger kids, while older children can handle multi-step processes involving measurements and data recording.

Safety and Supervision

Ensuring safe handling of materials, especially chemicals or heat sources, is paramount. Clear instructions and adult supervision reduce risks and enhance learning outcomes.

Educational Objectives

Aligning experiments with learning goals—whether understanding a specific scientific principle or developing general inquiry skills—maximizes educational value.

Engagement and Accessibility

Experiments that are visually appealing, interactive, and use readily available materials tend to sustain interest and participation.

Impact of Science Experiments on Child Development

Integrating 100 science experiments for kids into educational settings or at home can significantly influence cognitive and social development. Scientific exploration improves critical thinking by encouraging hypothesis formulation and testing. It also promotes language skills through describing observations and explaining results.

Moreover, group experiments foster collaboration, communication, and teamwork. These social aspects are invaluable as children learn to negotiate roles, share tools, and collectively solve problems.

Resources and Tools to Facilitate Science Experiments

Several resources can enhance the experience of conducting 100 science experiments for kids. Science kits tailored to age groups provide organized materials and instructions, reducing preparation time and ensuring safety. Online platforms and educational apps offer interactive guides, videos, and virtual labs, complementing physical experiments.

Additionally, comprehensive books and printable worksheets can support structured learning and record keeping, which are essential for developing scientific documentation habits.

Exploring 100 science experiments for kids is a multifaceted endeavor that blends education, creativity, and fun. By carefully selecting and guiding children through these hands-on activities, educators and parents contribute to building a strong foundation in scientific literacy, inspiring the next generation of innovators and thinkers.

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100 science experiments for kids: *Awesome Science Experiments for Kids* Crystal Chatterton, 2025-06-17 The ultimate science experiment book for kids! 100+ hands-on projects to get kids ages 5 to 10 excited about science. As kids grow older, they become more curious about the world around them, often asking, How does this work? *Awesome Science Experiments for Kids* teaches young brains the nuts and bolts of the scientific method using fun, hands-on experiments designed to show kids how to hypothesize, experiment, and then record their findings. It's great for fun anytime, but especially for turning your child's summer break into a period of fun-filled summer learning! With awesome projects like a Fizzy Rocket, Magnet-Powered Car, and Pencil Sundial, kids will have a blast learning to build, design, and think critically—while getting inspired to interact with the world around them and make their own discoveries. An amazing summer learning workbook, it guides young readers through numerous exciting projects that demonstrate the elegance and wonder of science in the most enjoyable way possible. *Awesome Science Experiments for Kids* includes: 100+ STEAM experiments—Each activity includes an explanation of the processes in play, so kids can understand how and why each project works. Easy instructions—These step-by-step science experiments for kids simplify each process to make the projects fun and simple to understand—and they only require basic household materials. Colorful photos—Refer to real-life photos that show you

how to bring these experiments to life. From learning how quicksand works to turning a lemon into a battery, these experiments teach budding STEAM kids how cool it is to be curious.

100 science experiments for kids: Inspiring Science Experiments for Kids Pasquale De Marco, 2025-05-04 Inspiring Science Experiments for Kids is a collection of 100+ exciting science experiments that kids can do at home. These experiments are designed to be fun and educational, and they cover a wide range of scientific topics, including physics, chemistry, biology, and more. With Inspiring Science Experiments for Kids, you can give your kids the opportunity to learn about science in a fun and engaging way. They'll be able to explore their interests, ask questions, and make discoveries all while having a blast. Here are just a few of the experiments you'll find in Inspiring Science Experiments for Kids: * Build a mini volcano and watch it erupt * Make a rainbow in a jar * Create your own slime * Build a solar-powered car * Launch a water rocket * Grow your own crystals * And much, much more! Inspiring Science Experiments for Kids is the perfect book for kids who love science. It's also a great resource for parents and teachers who want to make science fun and accessible for kids. So what are you waiting for? Order your copy of Inspiring Science Experiments for Kids today! Science is all around us, but sometimes it can seem intimidating. That's why it's important to find ways to make science fun and accessible for kids. Inspiring Science Experiments for Kids is a collection of 100+ exciting science experiments that kids can do at home. These experiments are designed to be fun and educational, and they cover a wide range of scientific topics, including physics, chemistry, biology, and more. With Inspiring Science Experiments for Kids, you can give your kids the opportunity to learn about science in a fun and engaging way. They'll be able to explore their interests, ask questions, and make discoveries all while having a blast. So what are you waiting for? Order your copy of Inspiring Science Experiments for Kids today and give your kids the gift of a lifetime. The gift of learning, the gift of discovery, and the gift of fun. If you like this book, write a review on google books!

100 science experiments for kids: 100 Science Experiments Georgina Andrews, Kate Knighton, 2005 This innovative book brings a fresh and exciting approach to the practical world of science, combining creative arts and crafts activities with the basics of physics, chemistry and biology. Contains over 40 stimulating and absorbing experiments, each of which is safe and simple to carry out and uses objects and materials that can be easily sourced. The clearly written, jargon-free text explains core scientific information in an accessible and hugely informative fashion that is easy for children to grasp. Every page is packed with gorgeous original artwork, which beautifully illustrates such exciting and original projects as making paper, a shadow show, a gravity race and creating electrical bugs. Contains a comprehensive glossary, and approved Internet links, which are reached through the Usborne Quicklinks website.

100 science experiments for kids: Janice VanCleave's Great Science Project Ideas from Real Kids Janice VanCleave, 2006-09-30 There's plenty for you to choose from in this collection of forty terrific science project ideas from real kids, chosen by well-known children's science writer Janice VanCleave. Developing your own science project requires planning, research, and lots of hard work. This book saves you time and effort by showing you how to develop your project from start to finish and offering useful design and presentation techniques. Projects are in an easy-to-follow format, use easy-to-find materials, and include dozens illustrations and diagrams that show you what kinds of charts and graphs to include in your science project and how to set up your project display. You'll also find clear scientific explanations, tips for developing your own unique science project, and 100 additional ideas for science projects in all science categories.

100 science experiments for kids: Science in Seconds for Kids Samuel Cord Stier, Jean Potter, 2020-10-16 Help your kids explore the wonders of science with over 100 easy and accessible experiments Science in Seconds for Kids: Over 100 Experiments You Can Do in Ten Minutes or Less, 2nd Edition makes learning science with your children fun and practical. Using ingredients and components found mostly in your home or classroom, Science in Seconds for Kids instructs caregivers and educators on how to create dazzling and enlightening experiments from scratch. This book utilizes bright and colorful illustrations and diagrams throughout, making the simple

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100 science experiments for kids: *Practice with Purpose* Debbie Diller, 2023-10-10 In her 30 years as an educator, Debbie Diller has closely examined classroom practice, asking Why? What's the purpose? Watching primary students work successfully at literacy work stations, she wondered with teachers, Why don't we have upper-grade students doing this? Could we kick it up a notch? In her new book, Debbie shows teachers of grades three-to-six how to structure their classrooms so that all students can be successful doing meaningful independent work using literacy work stations. *Practice with Purpose* offers guidance on establishing routines for independent reading and response writing, as well as step-by-step instructions on how to set up and manage a variety of hands-on literacy work stations appropriate for intermediate students. Each chapter includes: how to introduce the station; innovative ways to use materials; what to model to guarantee independence; how to troubleshoot; assessment and accountability ideas; how the station supports student achievement on state tests; reflection questions for professional development. The extensive appendix includes time-saving tools such as management board icons, graphic organizers, task cards, and recommended Web sites and children's literature.

100 science experiments for kids: *The Really Useful Book of Science Experiments* Tracy-ann Aston, 2015-09-16 The Really Useful Book of Science Experiments contains 100 simple-to-do science experiments that can be confidently carried out by any teacher in a primary school classroom with minimal (or no!) specialist equipment needed. The experiments in this book are broken down into easily manageable sections including: It's alive: experiments that explore our living world, including the human body, plants, ecology and disease A material world: experiments that explore the materials that make up our world and their properties, including metals, acids and alkalis, water and elements Let's get physical: experiments that explore physics concepts and their applications in our world, including electricity, space, engineering and construction Something a bit different: experiments that explore interesting and unusual science areas, including forensic science, marine biology and volcanology. Each experiment is accompanied by a 'subject knowledge guide', filling you in on the key science concepts behind the experiment. There are also suggestions for how to adapt each experiment to increase or decrease the challenge. The text does not assume a scientific background, making it incredibly accessible, and links to the new National Curriculum programme of study allow easy connections to be made to relevant learning goals. This book is an essential text for any primary school teacher, training teacher or classroom assistant looking to bring the exciting world of science alive in the classroom.

100 science experiments for kids: *Save the Earth Science Experiments* Elizabeth Snoke Harris, 2008 Going green is a hot topic...and a hot science fair project. Author and scientist Elizabeth Snoke Harris knows what impresses, and she provides plenty of winning ideas, along with step-by-step guidance to insure that the end result is a success. Show how to harness energy with windmills, make a biogas generator, and create alternative fuels. Demonstrate green power with recycled paper, solar building, and compact fluorescent light bulbs. Test the ozone, be a garbage detective," and discuss how to reverse global warming. The importance of what children learn will go even beyond the science fair: they'll have the knowledge to understand what's happening to Planet Earth...and the desire to do something eco-friendly every day.

100 science experiments for kids: *100 Science Experiments with Paper* Steven W. Moje, 1999-12 Describes how to perform 100 experiments with paper and other materials easily found in the home, exploring such topics as air, chemistry, electricity, magnetism, heat, light, inertia, sound, and water.

100 science experiments for kids: *Creating Science Fair Projects with Cool New Digital Tools*

Susan Henneberg, 2013-12-15 A science fair project is an opportunity for teens to choose a subject of interest, investigate it using the scientific method, and share their findings. While the scientific method never goes out of date, much about science fair research and presentation has changed with the advent of digital tools. Readers learn how they can use digital tools to brainstorm a question, research and take notes, collaborate with teammates, record and organize data, and create presentations using multimedia. As required by the Common Core, readers learn to use technology to produce and publish their work and to collaborate with others.

100 science experiments for kids: 100 Glues, Brews, and Goos Diana F. Marks, 2025-01-09 Never run out of activity ideas again with this book of 100 kid-tested, child-centered activities. Recipes and formulas stimulate creativity, critical thinking, and fun. They work solo or in groups and fill rainy days with hands-on activities. Librarians, teachers, and adult family members will appreciate their connection to broad areas of learning, including STEAM and the language arts. Recipes can travel the globe and be enjoyed by people from a variety of cultures and countries. And they won't be outgrown – there's plenty for children to create as they progress in both age and interests.

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100 science experiments for kids: Science in a Jar Julia Garstecki, 2019-07-23 With Science in a Jar, kids and grown-ups need only gather a jar and a few other inexpensive and readily available household objects to begin investigating and confirming the science at work all around them. The 35+ experiments included cover various scientific disciplines: life science, earth science, physical science, weather, and more. Some activities, like creating a cloud in a jar, are quick experiments that can be performed over and over again. Others, like the earthworm habitat, will be enjoyed over time. Science in a Jar also features several projects that help demonstrate how science and art intertwine—the sometimes overlooked “A” in STEAM! Each experiment is headed by a supplies list and difficulty level, as well as a short description of the project to be undertaken and the scientific principles with which the readers will interact. Directions and photographs guide readers through the scientific method in each experiment, while short features offer multileveled reading opportunities with explanations of terms, interesting quick facts, and brief descriptions of how scientists apply the specific concepts that readers just witnessed in the larger world today. In addition to providing readers with a better understanding of basic scientific concepts, Science in a Jar ignites curiosity, increases confidence to investigate scientific concepts, and fosters a love of science.

100 science experiments for kids: Noisy Experiments Anna Claybourne, 2018-12-15 Sometimes in life things are bound to get noisy, and if that's the case, why not learn from them? With the help of this informative book, readers perform exciting experiments and learn why and how certain items make certain sounds. Accessible step-by-step instructions correlate closely with

eye-popping illustrations, ensuring readers of many ages and levels can follow along with these amazing activities. Each exciting project encourages readers to use their critical thinking skills and draw conclusions based on the experiments they perform.

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100 science experiments for kids: Resources in Education , 2001-04

100 science experiments for kids: Popular Science , 1990-09 Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

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