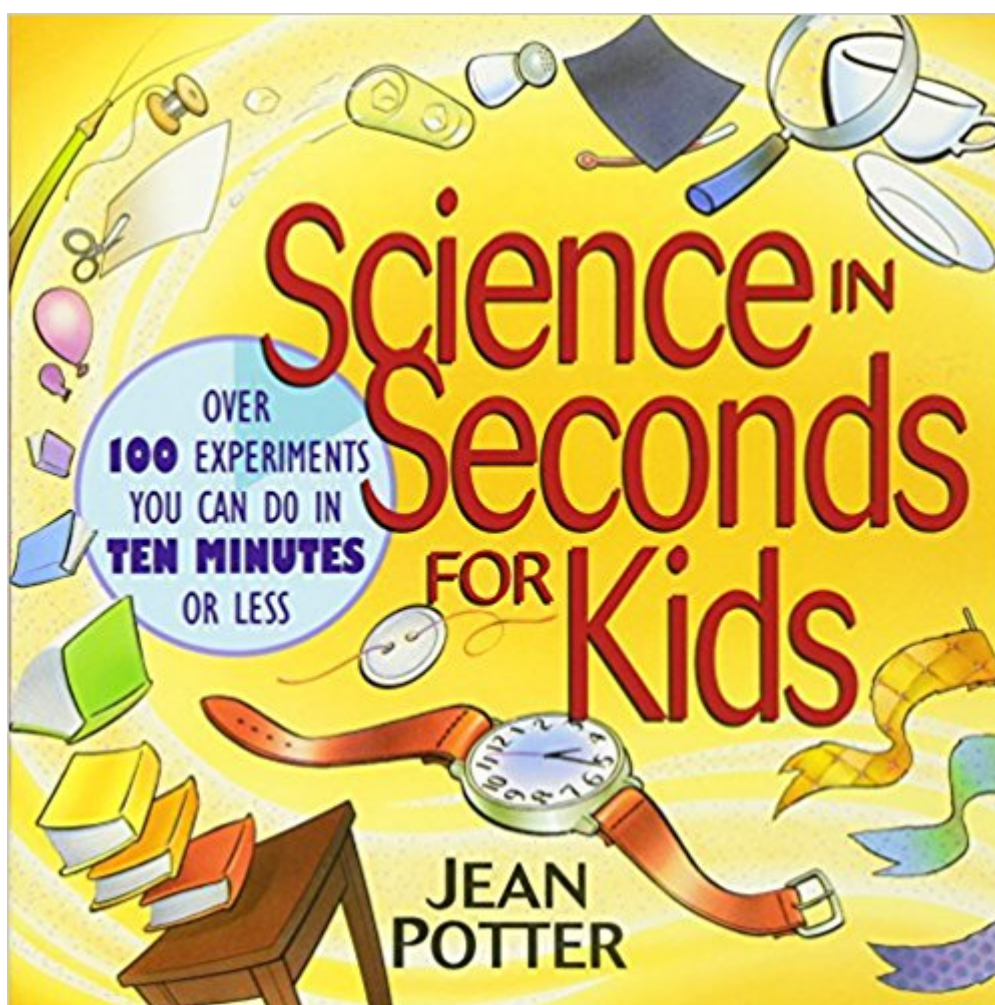


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# Science In Seconds For Kids: Over 100 Experiments You Can Do In Ten Minutes Or Less



## Synopsis

Make lightning in your room! Keep paper dry under water! Lose weight by going upstairs! See colors that aren't there! Experience the magic of science with these quick, easy experiments and activities from Jean Potter. You can complete each activity in ten fun-filled minutes or less. Clear, step-by-step instructions and illustrations help you get it right every time. The projects help you learn about everything from why eggs aren't round to how submarines surface and submerge. You will find most of the required materials already in your home, backyard, or neighborhood, and you can perform the experiments practically anywhere. The 108 activities in this book cover twelve different subject areas, including air, animals, energy, gravity, magnetism, light, the human body, and much more. You'll make a rainbow right on your floor, pop a balloon with a magnifying glass, make a coffee can roll back to you after you've pushed it away, and bend water as it streams from your faucet--all with the help of a leading educator. Children Ages 8-12

## Book Information

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Age Range: 8 - 12 years

Grade Level: 3 - 7

## Customer Reviews

Grade 2-4?A collection of quick, simple projects that use materials most kids will have around the house. Grouped into such subject areas as gravity, water, and light, most have just a few steps to follow. Instructions, illustrated by black-and-white drawings, are easy to understand and always note when adult help is needed. Each procedure is followed by an explanation of what should have

happened and why. At times these explanations involve concepts that children might not easily grasp from the experiment alone. A description of light rays and focal points, for instance, is hard to follow without elaboration or diagrams. In another case, molecules are introduced as "...the smallest particles of a substance that can exist on their own," which is accurate, but not the clearest way to describe them. Some activities are so predictable that reading about them can substitute for performing them. Other projects are more intriguing, such as using oil, water, and sunshine to make a rainbow, or creating a simple sand clock. The book is not terrifically exciting; its strength is that youngsters will be able to use it successfully on their own, and in many cases will learn a bit about science in the process. ©Steven Engelfried, West Linn Library, OR Copyright 1995 Reed Business Information, Inc.

A nationally respected educator, Jean Potter draws on her vast experience to offer children an excellent opportunity to learn basic science quickly and have a great time doing it. The over 100 fast and simple experiments are organized by major themes of the science curriculum including air, colors, energy and the environment. Scores of illustrations make directions easy to follow.

While many of the experiments are fun and instructive, there are several which show a complete lack of understanding of the science behind them. Some are impossible. eg, children are asked to catch and examine a live grasshopper under a magnifying glass. How this is to be done with a struggling insect is not clear. In the experiment entitled " Oil Rainbow" the colours seen when a thin film of oil is on top of water are due to refraction of light through the oil. In fact, they are caused by interference, This is a proof of the wave nature of light. The explanation is misleading. The experiment entitled "Personal Gravity" tells the child to weigh her/himself at the top of a tall building, then weigh again at the bottom. While there is a difference in the weight of an object at a high altitude and a low one, this difference is far too small to be detected by a bathroom scale at the top and bottom of the world's highest building. It is also stated that astronauts are weightless in earth orbit because they are far away from the earth's gravity. This is simply wrong.. The experiment "Wind Chill" is completely misleading. Wind chill affects only objects warmer than the environment. Not thermometers

Seven year old grandson LOVES it. Materials lists are mostly ordinary items you already have. Instructions are simple to follow with limited adult supervision. Children older than 7 could likely complete them without help. We've worked through 3 of the first 4 chapters and the experiments all

work as described. Many of the experiments could easily expand into science projects. And the best part: in this entire 4 day visit he has played about 2 minutes of Candy Crush and has been way more interested in repeating experiments than in computer games. I will be looking for the sequel.

I used this book for my Head Start kids and we found out that they really liked the new found knowledge about science. The experiments were easy to understand and the materials were easy to purchase at the dollar store or the the dollar tree store and yard sales. Have fun with the book and let the kids pick out what they might want to try in class together. Have a great summer a satisfied customer

love this i'm 11 and the it had great stuff for me to try i think this book is cool

I am using this book with preschool children and they love the experiments. My library programs have been exciting by adding "Science in Seconds"

Great book! don't waste your money on those expensive science kits. This book is perfect for the child that says "I want to do a science experiment!" every night when getting home from school. So far, we have had all the stuff we needed and it only takes a few minutes to complete a simple science experiment that just might amaze your kids!

This is a great book for younger children that have a short attention span. I purchased it because I work with special needs children. It gives them the opportunity to do science and enjoy it. There were some experiments that were not suited for this population thus the rating. If you have children at home and you want to get them interested in science in a fun way, this is the book.

My seven year old grandchild loved this book. We did not have the supplies for all the experiments but she found at least nine that she wanted to do and was able to do in one afternoon.

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