

Hands-On Physical Science Activities For Grades K-6 , Second Edition

By Marvin N. Tolman

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This is the second edition of Marvin N. Tolman's bestselling book *Hands-On Physical Science Activities for Grades K-6.* Like all the books in *The Science Problem-Solving Curriculum Library* series, this revised edition offers compelling activities that help teach students thinking and reasoning skills along with basic science concepts and facts. The book's activities follow the discovery/inquiry approach and encourage students to analyze, synthesize, and infer based on their own hands-on experiences. This new edition includes an expanded Teacher Information section, inquiry-based models and complex cooperative learning projects using materials found around the home. Many of the activities easily become great science fair ideas as well as activities that correlate with the national standards.

Designed to be user friendly, the book includes 175 easy-to-use, hands on activities and is organized into eight sections:

Nature of Matter

Energy

Light

Sound

Simple Machines

Magnetism

Static Electricity

Current Electricity

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Hands-On Physical Science Activities For Grades K-6 , Second Edition By Marvin N. Tolman Bibliography

- Sales Rank: #1291044 in Books
- Brand: Brand: Jossey-Bass
- Published on: 2006-04-07
- Released on: 2006-04-07
- Original language: English
- Number of items: 1

- Dimensions: 11.00" h x 1.10" w x 8.50" l, 2.70 pounds
- Binding: Paperback
- 544 pages

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Editorial Review

Review
"The *Hands-On* books are an awesome resource that has enhanced my science units. Every activity has easy step-by-step instructions, a materials list, and teacher information. My students and I love the activities."
—Patti W. Seeholzer, third-grade teacher, River Heights Elementary School, Utah and winner of the 2002 Presidential Award for Excellence in Science Teaching

"A great resource for all prospective and practicing elementary teachers."
—David T. Crowther, associate professor, science education, University of Nevada, Reno

"The Marv Tolman science activity books were always a hit with teachers and were valuable for use with my science method course students."
—Dr. Donald R. Daugs, professor emeritus, Utah State University

"I love the *Hands-On Science* books by Marv Tolman. They sit right next to my desk within easy reach. The lesson plans are teacher friendly and student friendly. The books are put together in such a way that it is easy to find any subject. From Kindergarten to 6th grade the lessons are set up for all students to use. I know, I have used them in all grades and my students love to be involved in science. I highly recommend these books for any teacher whether you struggle with science or are an expert in the field."
—Marilyn Bulkley, fifth grade teacher, Garfield School District, Panguitch, Utah

"Our sixth-, seventh-, and eighth-grade students have literally worn out our copies of Dr. Tolman's *Hands-On Activities.* We have two copies of each activity book and students select them for their concise instructions, excellent diagrams, and easy-to-find materials. Even though the title indicates grades K-6, students *and* teachers in seventh and eighth grades found the activities very helpful in classroom demonstrations and as a beginning point for science fair problems. I loved the way that the activities are divided into the three different disciplines: physical, earth, and life. It was fast and easy to locate just what you needed using the table of contents organization. There was always an activity for whatever concept my students were learning. Our school will need to purchase the newly revised activity books."
—Rosalee Riddle, science teacher, Red Hills Middle School, Richfield, Utah and science curriculum coordinator, Sevier School District, Richfield, Utah

"Before my current position as science teacher educator, I used these activity books extensively in teaching science to my sixth graders. I found them very valuable and helpful in creating lessons that engaged the students in hands-on activities that effectively taught science concepts. Now, as an assistant professor of science education, I continue to use them as I discuss and model hands-on and inquiry-based science. Additionally, I highly recommend them to the pre-service students in my elementary science methods courses, many of whom use them in lesson planning and unit planning for my class as well as during their practicum and student teaching experiences."
—Leigh K. Smith, Ph.D., assistant professor, Department of Science Education, Brigham Young University

"I have taught many science classes for our district over the last ten years, and I always rely on your *Hands-On* books for background information. I have them pulled off of the shelf now because I am using them to come up with a science/math activity for my National Board Certification Program. I know I can trust these books. The information is clearly presented, easy to understand, and the activities always work."

—Mary Selin, second grade teacher, Davis District and first grade science trainer for the district, Davis School District, Utah

"I have used Marv's science books for several years. I love the experiments. The kids love to try them on their own. They have easy-to-follow directions and all the materials are readily available. I especially like the explanations of how and why. The best thing about these experiments is that they work! I haven't had one fail yet."
—Keetette Turner, kindergarten teacher, Granite District, Salt Lake City, Utah

"I began working with Marv Tolman ten years ago. I was new to the world of elementary teaching. I had heard of a workshop that helped teachers simplify, and pinpoint science concepts that could be taught repeatedly through hands-on, basic application. That workshop was the first of many and I still--ten years later--use the concepts to teach my students. The basic and simple mechanics of science that are incorporated into these lessons reach the gifted and struggling learner and can be adapted and adjusted to time and to the needs of students' individual levels and learning styles."
—Marcie H. Judd, fourth grade teacher, Valley Elementary School, Kanab School District, Kanab, Utah

"Many elementary teachers lack science background knowledge. The *Hands-On Science Activities* series provides teachers with both background knowledge and engaging methods to help all students learn science concepts. Marv explains them using simple, clear, and concise language that equips teachers to teach with confidence. These books have increased both the accuracy and the quality of science education."
—Julie Cook, Title I Literacy Coordinator

From the Back Cover
This second edition of Marvin N. Tolman's bestselling book Hands-On Physical Science Activities for Grades K-6 offers compelling activities that help teach students thinking and reasoning skills along with basic science concepts and facts. The book's activities follow the discovery/inquiry approach and encourage students to analyze, synthesize, and infer based on their own hands-on experiences. This new edition includes an expanded "Teacher Information" section, and increased emphasis on collaboration, shared observations, and writing. It includes inquiry-based models and cooperative learning projects using materials easily found in the classroom or around the home. Many of the activities can easily become great science fair ideas, and lessons and activities are correlated with national science standards.

Designed to be user friendly, the book is organized into eight sections and printed in a lay-flat format.

- Nature of Matter
- Energy
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"A great resource for all prospective and practicing elementary teachers."
—David T. Crowther, associate professor, science education,University of Nevada, Reno

About the Author
Marvin N. Tolman , Ed.D., is a popular presenter at national meetings of science teachers, contributes to academic journals, reviews science education materials, and edits textbook and journal series. Currently, he is professor of teacher education at Brigham Young University and author of the popular Hands-On Science series from Jossey-Bass.

Users Review

From reader reviews:

Vickie Reed:

Book is to be different for each grade. Book for children until adult are different content. As we know that book is very important usually. The book Hands-On Physical Science Activities For Grades K-6 , Second Edition ended up being making you to know about other knowledge and of course you can take more information. It is extremely advantages for you. The book Hands-On Physical Science Activities For Grades K-6 , Second Edition is not only giving you much more new information but also to become your friend when you truly feel bored. You can spend your current spend time to read your e-book. Try to make relationship with all the book Hands-On Physical Science Activities For Grades K-6 , Second Edition. You never truly feel lose out for everything in case you read some books.

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Daniel Martin:

Is it an individual who having spare time subsequently spend it whole day by simply watching television

programs or just lying down on the bed? Do you need something new? This Hands-On Physical Science Activities For Grades K-6 , Second Edition can be the solution, oh how comes? It's a book you know. You are and so out of date, spending your free time by reading in this fresh era is common not a geek activity. So what these guides have than the others?

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