



## Hands-On Earth Science Activities for Grades K - 8 (J-B Ed: Hands On)

By Marvin N. Tolman

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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

#### From the Back Cover

This teacher's resource is one of three volumes in the "**Science Problem-Solving Curriculum Library**," a unique instructional series that provides nearly 500 exciting hands-on activities to teach students thinking and reasoning skills along with basic science concepts and facts.

Each volume in the series focuses on one major area of science normally taught in grades K-8 and offers a store of stimulating activities that can be used with virtually any science text. The activities follow the discovery/inquiry approach and encourage students to analyze, synthesize, and infer based on their own hand-on experiences.

#### BOOK I HANDS-ON LIFE SCIENCE ACTIVITIES FOR GRADES K-8

provides over 150 discovery experiences covering the topics of Plants and Seeds, Animals, Animal Life Cycles, Animal Adaptation, Body Structure, The Five Senses, and Health and Nutrition.

#### BOOK II HANDS-ON PHYSICAL SCIENCE ACTIVITIES FOR GRADES K-8

provides over 180 easy-to-use activities covering The Nature of Matter, Energy, Light, Sound, Simple Machines, Static Electricity, and Current Electricity.

#### BOOK III HANDS-ON EARTH SCIENCE ACTIVITIES FOR GRADES K-8

presents over 165 inquiry activities covering the topics of Air, Water, Weather, The Earth, Ecology, Above the Earth, and Beyond the Earth.

All of the activities are complete and ready for use, including a title written in question form ... list of materials needed, most readily available ... step-by-step procedures to be carried out by the student...and special tips and background information for the teacher.

**Many activities also provide illustrations to supplement the student procedures, and special sections "For Problem Solvers" that encourage motivated students towards independent investigation. Numerous activities are identified as appropriate to "Take home and do with family and friends."**

And to help you quickly find appropriate activities, each volume includes a Listing of Activities by topic that lists topics and subtopics covered and identifies one or more activities in that volume that can be used to introduce or reinforce that particular concept.

With the hand-on activities in this unique Library, no teacher need be a "scientist" to conduct an effective

and exciting science program! Moreover, the process skills emphasized in these experiences virtually assure students' increased insight and retention of content.

#### About the Author

**Marvin N. Tolman**, Ed.D., Utah State University, began his career in education as a teaching principal in rural Utah and spend the next 11 years teaching grades one through six in the schools of San Juan and Utah counties. Presently professor of elementary education, he has taught math methods, science methods, and computer literacy course at Brigham Young University for the past 20 years, served as a consultant to various school districts, and conducted many inservice workshops.

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