



Mad Science

HANDS - ON SCIENCE LITERATURE

The value of HANDS-ON learning, as it pertains to science instruction, is that it encourages discovery of the world through direct experiences with many scientific concepts & principles. Thus, students acquire learning skills and an appreciation of science as it relates to their world. These direct experiences should be supplemented with a variety of texts, pictures, diagrams, videos, etc. designed to support & extend the student s HANDS-ON learning. The teacher s role in the process is that of a learning facilitator: acquiring, organizing, and presenting materials, arranging the learning environment, guiding independent discovery, and serving as a resource person. Successfully establishing a HANDS-ON learning environment for students simply requires interest, desire, creativity, enthusiasm and interesting science activities. The following references, prepared by Mad Science, serves as a source of excellent HANDS-ON science activities that can be utilized in your classroom.

- Carin, Arthur A. *Teaching Science Through Discovery*. Macmillan Publishing Co., 1993.
- Cash T., Parker S., & Taylor B.. *175 More Science Experiments To Amuse and Amaze Your Friends*. Random House, 1989.
- Perry, Phyllis J., and Rillero, Joseph. *365 Science Projects & Activities*. Publications International, Ltd., 1996.
- Tolman, Marvin N. *Hands-On Physical Science Activities*. Parker Publishing Co., 1995.
- Tolman, Marvin N. *Hands-On Earth Science Activities*. Parker Publishing Co., 1995.
- Tolman, Marvin N. *Hands-On Life-Science Activities*. Parker Publishing Co., 1995.
- VanCleave, Janice. *201 Awesome, Magical, Bizarre, and Incredible Experiments*. John Wiley & Sons, Inc., 1996.
- VanCleave, Janice. *202 Oozing, Bubbling, Dripping, and Bouncing Experiments*. John Wiley & Sons, Inc., 1996.
- Wellnitz, William R. *Homemade Slime and Rubber Bones: Awesome Science Activities*. TAB Books, 1993.
- Walpole, Brenda. *175 Science Experiments To Amuse and Amaze Your Friends*. Random House, 1988.

Learning Is FUN Through Mad Science!