

Mountains of Fire

Volcanoes is a fun packed science activities book designed for anyone interested in volcanoes. There are four major types of volcanoes.

- ◆ **Stratovolcanoes** are the majestic volcanic mountains that often have extremely violent eruptions.
- ◆ **Shield volcanoes** are the largest volcanic mountains in the world. The Hawaiian Islands are shield volcanoes.
- ◆ **Cinder cones** are whole mountains made of cinders. Cinders are usually walnut-sized pieces of volcanic rocks.
- ◆ **Dome volcanoes (lava domes)** form when thick pasty lava erupts from a vent. Often after a major eruption on a stratovolcano, a dome will form near the summit in a crater or on the side of the volcano.

Old Chinese Proverb

I hear, and I forget

I see, and I remember

I do, and I understand

I believe that students learn by doing science. This book is dedicated to children who love science and doing science.

Each activity contains the following:

- ◆ The **Introduction** is a brief statement about the activity and other information you might like to know before you start the activity.
- ◆ **Science behind the activity** at the end of the activity. This information explains science principles or current science research related to the activity that you might find interesting.
- ◆ **Pictures** are designed to increase your understanding of how to do the activity before you start.
- ◆ **Materials** in each activity are often found around the home. Often recycled materials can be used for the activities also.
- ◆ **Directions** are written in a clear easy-to-understand format.
- ◆ **More science activity ideas** provides other ideas that you might like to try after doing the activity.
- ◆ **Activity Notes** is a place where you can write your predictions, general notes and any other thing you want to remember about the activity.

Dough Stratovolcano

Activity 1

Introduction

Volcanoes come in many shapes and sizes. In this activity you will be creating a stratovolcano. They typically form a cone shape as they increase in size.



Stratovolcano

Materials

- ◆ Measuring cup
- ◆ Salt
- ◆ Flour
- ◆ Water
- ◆ Aluminum foil
- ◆ Small jar lid or small tuna fish can
- ◆ Cardboard
- ◆ Acrylic paint, brown, red, blue and green (non-aerosol)

Directions

1. Mix together the following:
 - a. Flour 2 cups
 - b. Salt 1 cup
 - c. Water 1 cup

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