

Introduction

Earthquakes is a fun packed activity book for anyone interested in how and why earthquakes occur. Earthquakes are related to plate tectonic movement. The activities in this book include activities related to the four major types of faults. Activities include Rock Blocks, Moving Plates, and Tin Can Seismograph.

Four major types of faults that develop due to plate movement. **Normal faults** form when two tectonic plates are pulling apart creating a spreading zone. **Reverse faults** occur when two crustal plates collide sometimes creating mountains. **Thrust faults** are reverse faults at a low angle and often slip over another section of land. **Strike-slip faults** occur when plates are moving past one another horizontally.

We believe that students learn by doing science.

Old Chinese Proverb

I hear, and I forget

I see, and I remember

I do, and I understand

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.

Mantle Rocks Flow & Break

Activity 2

Introduction

In this activity you will create “mantle rocks” that break apart and can flow like a liquid. Your mantle rocks act like the real rocks in the upper mantle.



Mantle rocks breaking apart like a solid MLM

Materials

- ◆ Large spoon
- ◆ White school glue
- ◆ Liquid starch
- ◆ Food coloring (optional)
- ◆ Fork
- ◆ Bowl

Directions

1. Pour 2 spoons of white school glue into a bowl.
2. Pour 1 spoon of liquid starch into the bowl.
3. Mix the two ingredients together with a fork until it forms a soft ball that can be picked up with your hands.
4. Continue to knead the silly putty with your hands.
5. You may need to add a little more glue or starch if the mantle rocks do not their shape.
6. After the mixture forms a soft ball you can add 1 or 2 drops of food coloring to color your mantle rocks.
7. Work the food coloring into the mixture until it is blended with your hands.

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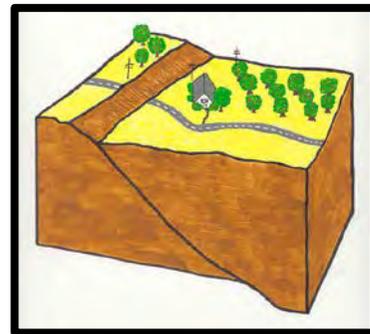
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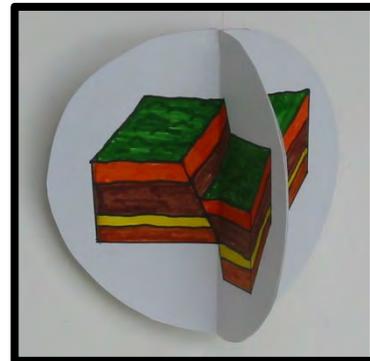


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