

Introduction

Rocks & Minerals activity book includes activities on the three families of rocks. **Igneous rocks** are created during volcanic eruptions and when molten rock cools above or underground. **Sedimentary rocks** cover most of the Earth's surface. **Metamorphic rocks** are rocks that have changed because heat, pressure and fluids cause the minerals in the rocks to recrystallize without the rock melting. **Minerals** are the building blocks of rocks. All rocks are made of one or more minerals.

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.

Sedimentary Sandwich

Activity 5

Introduction

Clastic sedimentary rocks form when rivers deposit layers of mud, pebbles, leaves, and animal debris collect offshore in an ocean. In this activity you will be creating a cracker sedimentary sandwich with layers of peanut butter and jelly.



Materials

- ◆ Honey graham crackers
- ◆ Chocolate graham crackers
- ◆ Chunky peanut butter
- ◆ Strawberry or raspberry jam
- ◆ Knife
- ◆ Paper plate

Directions

1. Break two rectangular pieces of honey graham crackers in half to form four square pieces of light crackers.
2. Break two rectangular pieces of chocolate graham crackers in half to form four square pieces of dark crackers.
3. Lay one square of honey graham cracker on the plate.
4. Spread a layer of chunky peanut butter on top.

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