

# Rocks

## INGREDIENTS:

- 1/3 cup sand
- 2 tablespoons pebbles
- Glue

## INSTRUCTIONS:

### STEP 1:

In the bottom of the cup add a thin layer of sand.

### STEP 2:

Add a thin layer of glue.

### STEP 3:

Add a thin layer of pebbles.

### STEP 4:

Repeat Steps 1 through 3 twice.

### STEP 5:

Allow to dry for one week.

### STEP 6:

Using scissors, cut off the cup and explore the layers of your rock.

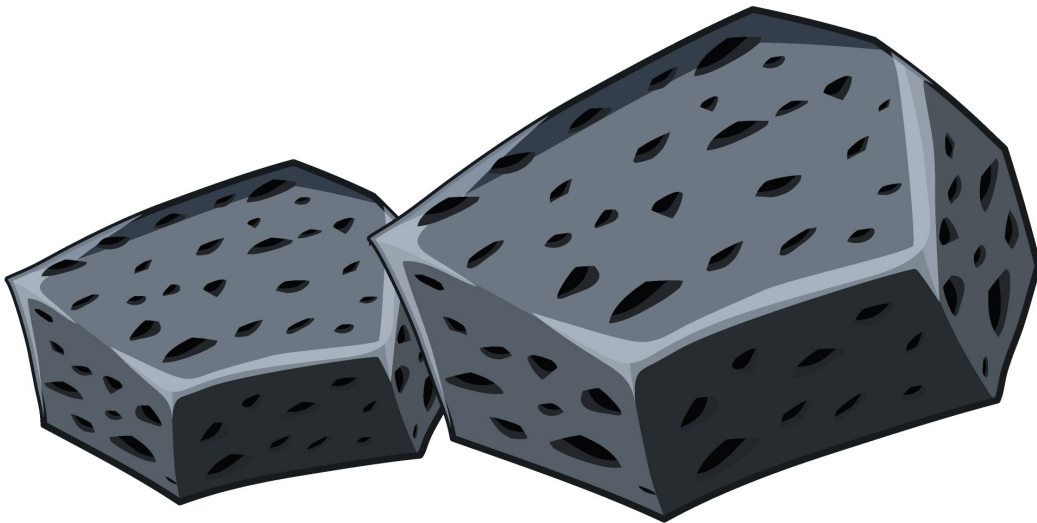
# Rocks

## Types of Rocks

Rocks are composed of minerals that become cemented together. There are three types of rocks: igneous, sedimentary, and metamorphic.

## Igneous Rocks

Igneous rocks are created when molten rock, like lava or magma hardens. When this occurs underneath the earth's surface it is called plutonic rock, and when it occurs above the earth's surface it is called volcanic rock. Two examples include pumice and granite.

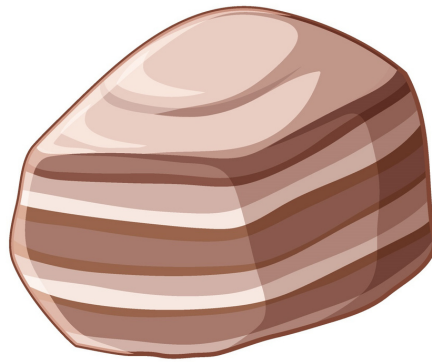


**Igneous Rock**

# Rocks

## Sedimentary Rocks

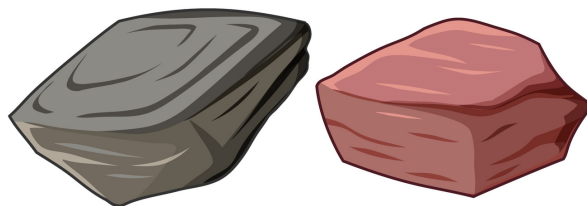
Sedimentary rocks are formed of layers of sand, mud, and small stones. The layers form as material gets compacted and new materials are added to the top. Fossils can often be found in this type of rock. Examples include chalk and sandstone.



**Sedimentary Rock**

## Metamorphic Rocks

Metamorphic rocks start as either sedimentary or igneous rocks, but extreme pressure and heat under the earth's surface causes chemical changes that alter the rocks. Examples include marble and slate.



**Metamorphic Rock**

A rock is: \_\_\_\_\_

There are three types of rocks

### 1. Igneous

Igneous rocks are formed when hot \_\_\_\_\_ is cooled down and turns from a liquid into a \_\_\_\_\_.

An example of igneous rock is \_\_\_\_\_.

### 2. Sedimentary

Sedimentary rock is made up of \_\_\_\_\_ of sediment that pile up over time.

You can sometimes find \_\_\_\_\_ inside of sedimentary rock.

### 3. Metamorphic

Metamorphic rocks are rocks that used to be igneous or sedimentary.

Metamorphic rocks are rocks that were changed by \_\_\_\_\_, \_\_\_\_\_, or both.

A rock is: \_\_\_\_\_

There are three types of rocks

### 1. Igneous

Igneous rocks are formed when hot **lava** is cooled down and turns from a liquid into a **solid**.

An example of igneous rock is **Granite or pumice**.

### 2. Sedimentary

Sedimentary rock is made up of **layers** of sediment that pile up over time.

You can sometimes find **fossils** inside of sedimentary rock.

### 3. Metamorphic

Metamorphic rocks are rocks that used to be igneous or sedimentary.

Metamorphic rocks are rocks that were changed by **heat**, **pressure**, or both.