

Name: \_\_\_\_\_

# Types of Rocks

By Cindy Sherwood

Mount Rushmore is an amazing sight, with the faces of four presidents carved into a giant rock mountain. But even a small rock you find in your yard is pretty amazing. After all, most rocks have been around for millions of years. Some are billions of years old!

Rocks come in many sizes. A grain of sand can be considered a very tiny rock. Small, smooth rocks you can hold in your hand are called pebbles. A boulder is a very large rock that is detached, or separate from, other rocks. Some boulders are so big you can climb on them.

## Igneous Rock



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rock forms after a volcano erupts. Liquid magma is called lava when it reaches the earth's surface and blasts out of a volcano. When the lava cools, it creates igneous rock.

About a quarter of the rocks on earth are igneous. The most common type is granite. Granite has big clumps of crystals that are either gray, white, pink, or red. Granite is often used as a building material, and can be found in everything from kitchen counters to bridges. Another kind of igneous rock is obsidian, which you pronounce "ub-sid-ee-un." This is a shiny black volcanic rock with sharp edges that was often used for knife blades and arrowheads.

## Sedimentary Rock



The second major type of rock is sedimentary, pronounced "said-uh-men-tare-ee." It means "sitting rock."

This type of rock is formed from igneous rocks that break down into smaller pieces and fall to the ground or to the bottom of a lake or river. After many years, layers of these tiny pieces of rock pile on top of one another. The layers eventually cement together to form sedimentary rock. Sedimentary rock also can be created from the shells of tiny sea creatures that fall to the bottom of the ocean and get smashed together under the weight of the water. Sedimentary rocks formed close to the shore have mostly sand in them, such as sandstone. Sedimentary rocks formed farther from the shore have more clay in them, such as shale or limestone. Just as they did billions of years ago, sedimentary rocks still form in the same way today.



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The next time you get a pebble in your shoe, take a minute to study it closely before you throw it away. That little pebble may be billions of years old. Maybe it came from a volcano, or maybe it traveled all the way from the center of the earth. Or maybe it was once part of the shell of a sea creature. Mount Rushmore is an amazing carved rock, but even the smallest, most ordinary rock is amazing, too!



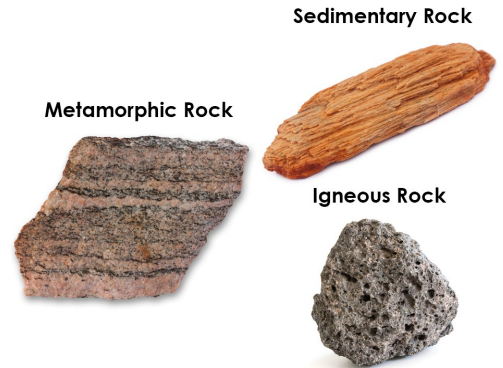
Name: \_\_\_\_\_

# Types of Rocks

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1. According to the information in the article, which of the following is **not** an example of a rock?

- a. a boulder in the woods
- b. a pebble inside your shoe
- c. a grain of sugar on the kitchen table
- d. a grain of sand on the seashore



2. Based on what you read in the passage, what are two ways igneous rocks are formed?

1. \_\_\_\_\_



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4. According to the article, what is magma?

\_\_\_\_\_

\_\_\_\_\_

5. Many everyday items we use are made out of rock. Based on what you learned in the article, place a check mark (✓) next to two common items made from rock.

- Granite counter tops
- Hardwood floors
- Window panes
- Knife blades

Name: \_\_\_\_\_

# Types of Rocks

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Metamorphic Rock



Sedimentary Rock



Igneous Rock



Match each vocabulary word from the reading passage with the correct definition.

- |                   |  |
|-------------------|--|
| _____ 1. crystals | a. a type of rock that forms from magma (inside the earth's crust) or lava (outside the earth's crust) |
| _____ 2. grain    | b. shiny, black volcanic rock with sharp edges   |
| _____ 3. core     | c. a type of rock that is formed by layers of materials, such as shells, sand, or clay                 |



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- |                           |   |
|---------------------------|---|
| _____ 7. sedimentary rock | g. a type of rock that undergoes changes because of heat and pressure                         |
| _____ 8. obsidian         | h. very small particle  |
| _____ 9. metamorphic rock | i. a mountain or hill with a crater in the center from which lava, gas, and rock pieces erupt |
| _____ 10. Mount Rushmore  | j. a scientist who studies the earth, including rocks   |

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# Types of Rocks

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In the article, "Types of Rocks," you learned about the three different categories of rocks: igneous rocks, sedimentary rocks, and metamorphic rocks.

On the lines below, answer the following question: Is concrete an igneous, sedimentary, or metamorphic rock? How can you tell?

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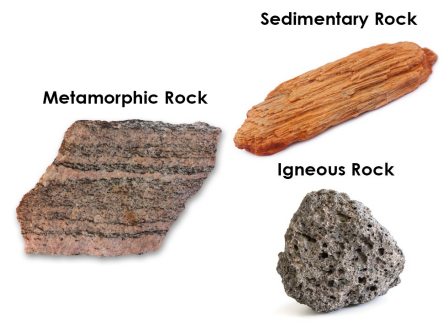
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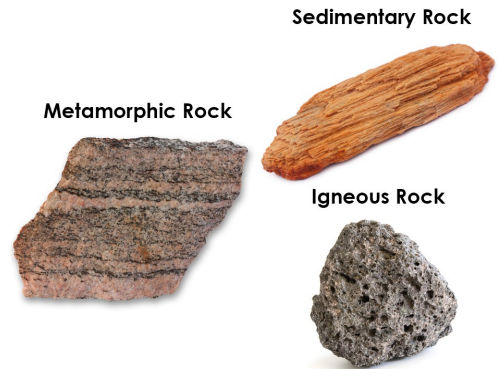


## ANSWER KEY

# Types of Rocks

By Cindy Sherwood

1. According to the information in the article, which of the following is **not** an example of a rock? **c.**
- a. a boulder in the woods
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  - c. a grain of sugar on the kitchen table**
  - d. a grain of sand on the seashore



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## ANSWER KEY

# Types of Rocks

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Match each vocabulary word from the reading passage with the correct definition.

Metamorphic Rock



Sedimentary Rock



Igneous Rock



**d.** 1. crystals

**a.** a type of rock that forms from magma (inside the earth's crust) or lava (outside the earth's crust)

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**e.** 10. Mount Rushmore

**j.** a scientist who studies the earth, including rocks