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.

Rocks form 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.

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.

The third major type of rock is metamorphic, pronounced “met-uh-more-fic.” Metamorphic means “changed form,” and that is exactly what these rocks are. They start out as either igneous or sedimentary, but over time extreme heat or pressure causes them to change into a different kind of rock. For example, limestone eventually can turn into marble. Metamorphic is the least common type of rock.

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!
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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. __________________________________________
   2. __________________________________________

3. Choose the best description of sedimentary rock from the choices below.
   a. Sedimentary rocks were formed under a lot of heat and pressure.
   b. Sedimentary rocks consist of layers of material cemented together.
   c. Granite and obsidian are two examples of sedimentary rock.
   d. Sedimentary rocks are the least common type of rock.

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

_____  1. crystals

_____  2. grain

_____  3. core

_____  7. sedimentary rock

_____  8. obsidian

_____  9. metamorphic rock

_____ 10. Mount Rushmore

a. a type of rock that forms from magma (inside the earth’s crust) or lava (outside the earth’s crust)
b. shiny, black volcanic rock with sharp edges
c. a type of rock that is formed by layers of materials, such as shells, sand, or clay
g. a type of rock that undergoes changes because of heat and pressure
h. very small particle
i. a mountain or hill with a crater in the center from which lava, gas, and rock pieces erupt
j. a scientist who studies the earth, including rocks
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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Super Teacher Worksheets - www.superteacherworksheets.com
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
   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 that igneous rocks are formed?
   
   1. Igneous rocks can be formed from magma cooling slowly inside the earth’s crust.
   2. Igneous rocks can also be formed by lava that cools after a volcano erupts.

3. Choose the best description of sedimentary rock from the choices below.
   
   a. Sedimentary rocks were formed under a lot of heat and pressure.
   b. Sedimentary rocks consist of layers of material cemented together.
   c. Granite and obsidian are two examples of sedimentary rock.
   d. Sedimentary rocks are the least common type of rock.

4. According to the article, what is magma?
   
   Magma is liquid rock found in the earth’s core.

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

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

d. 1. crystals
   a. a type of rock that forms from magma (inside the earth’s crust) or lava (outside the earth’s crust)

   e. 10. Mount Rushmore
   j. a scientist who studies the earth, including rocks