

GLOSSARY

IGNEOUS ROCKS = Those formed from melted rock that have cooled and solidified.

SEDIMENTARY ROCKS = Those rocks formed on the Earth's surface either in water or on land.

METAMORPHIC ROCKS = Rocks that have been subjected to pressures and or heat which changes the rock to denser, more compact rock.

MAGMA = Molten rock.

OBSIDIAN - Volcanic glass.

GRANITE = Igneous rock.

BASALT = An igneous rock.

ANDESITE PORPHYRY = A fine-grained igneous rock with no quartz or orthoclase, composed of about 75 percent plagioclase feldspars and the balance ferromagnesian silicates. Important as lavas possibly derived by fractional crystallization from basaltic magma. Widely characteristic of mountain-making processes around the borders of the Pacific Ocean. Confined to continental sectors.

SHALE = Compacted and dry mud which has been hardened.

FOLIATION = Parallel arrangement of minerals in metamorphic rock, which gives it a striped appearance.

QUIZ

1) Rocks that are formed from melted rock which has cooled and solidified are classified as:

- A) Igneous
- B) Metamorphic
- C) Sedimentary

2) These rocks are formed at the surface of the earth and are layered accumulations of sediments:

- A) Igneous
- B) Metamorphic
- C) Sedimentary

3) These rocks have been subjected to high pressure and temperature so they are completely changed:

- A) Igneous
- B) Metamorphic
- C) Sedimentary

4) Metamorphic rocks that have a parallel arrangement of certain mineral grains which give the rock a striped appearance is called:

- A) Quartz Monzonite
- B) Clastic
- C) Foliated
- D) Intrusive

5) The Estimated age of the earth is:

- A) 3.6 Billion years
- B) 4.5 Billion years
- C) Less than one million years old
- D) 2.1 million years

6) If you were to collect rocks from the Midwest such as Indiana, Ohio, Iowa or Illinois you would likely find what kind of rocks?

- A) Igneous
- B) Metamorphic
- C) Sedimentary

7) If you were to travel to the Rocky Mountains you would most likely find what kind(s) of rock?

- A) Igneous
- B) Sedimentary
- C) Metamorphic

8) Classify the following rocks as:

A) Igneous B) Sedimentary C) Metamorphic

Obsidian

Shale

Basalt

Gneiss

Granite

Sandstone

Schist

Andesite porphyry

9) The best collecting sites for rock are:

- A) Open fields
- B) Level country
- C) Abandoned mines
- D) Quarries, road cuts and outcrops

10) If you were to collect rocks in Hawaii you would likely find what type of rocks?

- A) Igneous
- B) Metamorphic
- C) Sedimentary

ACTIVITIES:

1. Have the students bring in 4-5 rocks which they may have around their homes. Try to classify them as Igneous, Metamorphic and Sedimentary.
2. If students have collected rocks from trips they have made to various places in the United States classify them and exhibit them for others in the class to see.
3. Make a list of places in your town or city where you can see displays of rocks such as local museums, libraries, natural history museums, travelling exhibits, or university museums.

QUIZ ANSWERS

- 1) A
- 2) C
- 3) B
- 4) C
- 5) B
- 6) C
- 7) C
- 8) A, B , A, C, A, B, C, A
- 9) D
- 10) A

Physical Geography II Series

COLLECTING ROCKS AND MINERALS

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PROGRAM DESCRIPTION

The Earth is made of rock, from the tallest mountains to the floor of the ocean. Thousands of different types of rocks and minerals have been found on Earth. This program examines how rocks are continually changing. It looks at the types of rocks - Igneous, Sedimentary, and Metamorphic.

YOU WILL LEARN:

- How to start your own collection.
- How to identify rocks.
- Where to find rocks.
- Collecting equipment.
- Housing and enlarging your collection.
- Hints for rock collectors.

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