

# Shenandoah National Park Education Program

## Geology Pre-Visit/Post-Visit Assessment

Name \_\_\_\_\_ Date \_\_\_\_\_

**Instructions:** Read each question carefully and choose the one best answer. Circle the letter of your choice.

1. Hot lava erupting from a volcano and then cooling is an example of \_\_\_\_\_ rock being formed.
  - a. igneous
  - b. metamorphic
  - c. sedimentary
  - d. shale
  
2. \_\_\_\_\_ occurs when rocks or soil are carried away from one place to another.
  - a. intrusion
  - b. weathering
  - c. erosion
  - d. hardening
  
3. *Metamorphic rock* is formed when sedimentary or igneous rock is put under tremendous \_\_\_\_\_.
  - a. heat and pressure
  - b. ozone and pollution
  - c. chemicals and weathering
  - d. erosion and drought
  
4. Rocks are important because they can be used for \_\_\_\_\_.
  - a. tools
  - b. building
  - c. habitats
  - d. all of the above
  
5. Which geologic feature was most likely formed by the movement of the Earth's crustal (tectonic) plates?
  - a. The Appalachian Mountains
  - b. The Shenandoah River
  - c. Sand dunes
  - d. All of the above

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6. A shell fossil is most likely to be found in which rock type?
  - a. Igneous
  - b. Sedimentary
  - c. Metamorphic
  - d. All of the above
  
7. Water freezing in cracks and breaking rocks apart is an example of \_\_\_\_\_.
  - a. erosion
  - b. weathering
  - c. organic waste
  - d. plate tectonics
  
8. Geologists think that the Appalachian Mountains were once much taller than they are today. This decrease in size was caused mostly by \_\_\_\_\_.
  - a. earthquakes
  - b. volcanoes
  - c. weathering and erosion
  - d. tectonic plate movement
  
9. Which action can be used to protect soil and prevent erosion?
  - a. Grazing cattle on a steep hillside.
  - b. Planting trees and grass.
  - c. Cutting forests.
  - d. Trampling stream banks.
  
10. How does Shenandoah National Park protect geological resources?
  - a. By teaching preservation and protection of natural resources
  - b. By participating in and encouraging recycling programs
  - c. By requiring people to leave fossils and artifacts where they are found
  - d. All of the above

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### Geology Pre-Visit/Post-Visit Assessment Answer Key

- Hot lava erupting from a volcano and then cooling is an example of \_\_\_\_\_ rock being formed.  
a. **igneous**
- \_\_\_\_\_ occurs when rocks or soil are carried away from one place to another.  
c. **erosion**
- Metamorphic rock* is formed when sedimentary or igneous rock is put under tremendous \_\_\_\_\_.  
a. **heat and pressure**
- Rocks are important because they can be used for \_\_\_\_\_.  
d. **all of the above**
- Which geologic feature was most likely formed by the movement of the Earth's crustal (tectonic) plates?  
a. **The Appalachian Mountains**
- A shell fossil is most likely to be found in which rock type?  
b. **Sedimentary**
- Water freezing in cracks and breaking rocks apart is an example of \_\_\_\_\_.  
b. **weathering**
- Geologists think that the Appalachian Mountains were once much taller than they are today. This decrease in size was caused mostly by \_\_\_\_\_.  
c. **weathering and erosion**
- Which action can be used to protect soil and prevent erosion?  
b. **Planting trees and grass.**
- How does Shenandoah National Park protect geological resources?  
d. **All of the above**