

## Chapter 4

## ENRICHMENT

Use with Section 3

# ● Metamorphic Rocks and the Rock Cycle

## Analyzing Rocks

Read the following information. Then answer the questions.

In this activity, you will identify rocks from a group of unidentified rock samples.

### Materials



9 rock samples  
paper and pencil

apron  
streak plate

goggles  
magnifying lens

### Procedure

1. Refer to the rock identification chart in the appendix of your textbook. Also, see the National Audubon Society's *Field Guide to North American Rocks and Minerals*. On a piece of paper, copy the table with headings as shown below. Add seven rows to your table so that you can note your observations on each of the nine rock samples. Some observations are filled in. Label each unidentified rock with a number, 1–9.
2. Observe the grains, crystals, banding, and other characteristics of the rock samples.
3. Record your observations of the unidentified rock samples on the table you made. When you feel confident about your conclusion, write it down in the last column. Label each rock with your conclusion.

### Rock Sample Observations

Rock	Color	Description	Observations/Ideas	Conclusion
1	gray	hard, has lots of little pores	light and floats	pumice
2				

1. What were the first observations you made to help you decide which rock was which?

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2. Vinegar is slightly acidic. How could vinegar help you draw your conclusions about which rock is which?

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