

SECTION 1

Study Guide

The Rock Cycle

Chapter

4

Directions: Place the letter of the term beside the correct definition.

Definition

- _____ 1. a mixture of minerals, volcanic glass, organic material, or other materials
- _____ 2. illustrates the processes that create and change rocks
- _____ 3. formed when particles and bits of rock are cemented together
- _____ 4. formed when heat, pressure, or fluids act on other types of rock and affect their composition
- _____ 5. formed when hot magma cools and hardens (may be intrusive or extrusive rock)
- _____ 6. rock fragments, mineral grains, or organic remains that have been moved by wind, water, ice, or gravity
- _____ 7. principle that illustrates chemical elements from minerals and rocks are not lost or destroyed, but changed to a new form
- _____ 8. location where scientists first recognized the rock cycle

Vocabulary

- a. conservation of matter
- b. igneous rock
- c. James Hutton
- d. metamorphic rock
- e. Mt. Rushmore, South Dakota
- f. rock
- g. rock cycle
- h. sediments
- i. sedimentary rock
- j. Siccar Point, Scotland
- k. volcanic

Directions: List possible changes for each type of rock. (Hint: Refer to Figure 2 in your textbook for additional help.)

	Type of Rock	May Change To	Or May Change To
9.	Igneous	magma	
10.	Sedimentary		
11.	Metamorphic	sediments	
12.	Sediments		

SECTION 3

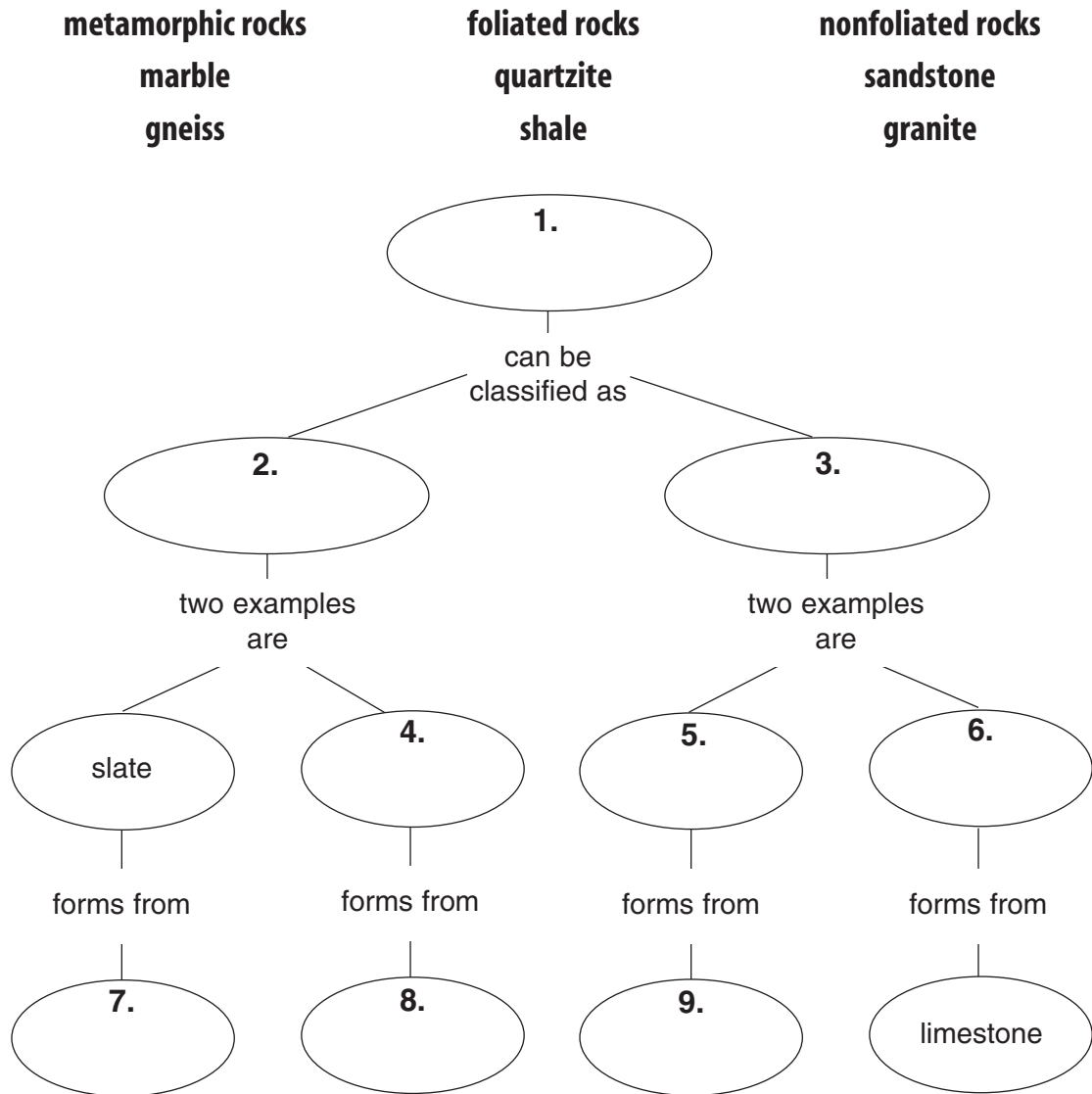
Study Guide

Metamorphic Rocks

Chapter

4

Directions: Complete the concept map using the terms below.



Directions: Write **T** if the statement is true. Write **F** if the statement is false.

- _____ 10. Metamorphic rocks form only from igneous rocks.
- _____ 11. An igneous rock like granite can be formed into a metamorphic rock like gneiss.
- _____ 12. Heat and pressure have no effect on rocks.
- _____ 13. One type of rock, such as shale, can change into several different kinds of metamorphic rock.

SECTION
4**Study Guide****Sedimentary Rocks****Chapter****4**

Directions: *Complete the outline by filling in the blanks.*

Sedimentary Rocks**I. Materials that make up sediments**

A. _____

B. _____

C. _____

II. Ways sedimentary rocks can form

A. _____

Definition: _____

B. _____

Definition: _____

C. _____

Definition: _____

III. Classification of sedimentary rocks

A. _____

Examples: _____

B. _____

Examples: _____

C. _____

Examples: _____