

Directed Reading B (Lesson 4-3)

Section: Sedimentary Rock

ORIGINS OF SEDIMENTARY ROCK

Read the words in the box. Read the sentences. **Fill in each blank** with the word or phrase that best completes the sentence.

strata	sediment	dissolved minerals
erosion	weather	surface

1. Wind, water, ice, and gravity cause rock to _____ into fragments.
2. Fragments of rock are called _____.
3. Sediment moves from one place to another during the process of _____.
4. Sedimentary rock forms at or near the Earth's _____.
5. Cement made from _____ binds the fragments together.
6. The most noticeable feature of sedimentary rock is its layers, also called _____.

Directed Reading B *continued***COMPOSITION OF SEDIMENTARY ROCK**

Read the description. Then, draw a line from the dot next to each description to the matching word.

- | | | |
|--|---|------------------------------|
| 7. rock that forms when minerals crystallize out of a solution | ● | a. clastic sedimentary rock |
| 8. rock that forms from the remains of plants and animals | ● | b. clasts |
| 9. rock or mineral fragments | ● | c. chemical sedimentary rock |
| 10. rock that forms when clasts are cemented together | ● | d. organic sedimentary rock |

Clastic Sedimentary Rock

Circle the letter of the best answer for each question.

11. How are clastic sedimentary rocks classified?
- a. mineral shape
 - b. fragment shape
 - c. fragment size
 - d. mineral size

Chemical Sedimentary Rock

12. Which of the following is a chemical sedimentary rock?
- a. conglomerate
 - b. coal
 - c. halite
 - d. shale
13. What does chemical sedimentary rock form from?
- a. minerals that crystallize out of solution
 - b. clasts
 - c. decomposed plant material
 - d. fossils

Directed Reading B *continued*

Circle the letter of the best answer for each question.

14. What is the chemical makeup of halite?
- a. calcium carbonate
 - b. silicon dioxide
 - c. calcium sulfate
 - d. sodium chloride

Organic Sedimentary Rock

Read the words in the box. Read the sentences. **Fill in each blank with the word or phrase that best completes the sentence.**

coal	Coral	fossiliferous limestone
fossils	reefs	

15. Limestone can be formed from _____, or the remains of animals.
16. Some limestone is formed from the skeletons of tiny organisms called _____.
17. Coral live in huge underwater colonies called _____.
18. Animal remains that are cemented together can form _____.
19. Decomposed plant material under the ground makes _____.

Directed Reading B *continued*

SEDIMENTARY ROCK STRUCTURES

Circle the letter of the best answer for each question.

20. What is the process in which sedimentary rocks are arranged in layers?
- a. cementation
 - b. stratification
 - c. crystallization
 - d. erosion
21. What are the markings on sedimentary rocks that record the waves of wind and water?
- a. strata
 - b. shorelines
 - c. mud cracks
 - d. ripple marks
22. Which of the following indicates the location of an ancient shoreline?
- a. coral
 - b. mud cracks
 - c. coal
 - d. limestone