



Directed Reading A

Section: Erosion and Deposition by Ice

1. What is a glacier?

GLACIERS—RIVERS OF ICE

Place the four steps involved in formation of glaciers in order from first to last. Write the appropriate number in the space provided.

- _____ 2. Gravity pulls on the gigantic mass of the ice packs, setting them in motion.
- _____ 3. Snow piles up year after year in polar regions and high elevations.
- _____ 4. Ice crystals form a huge mass of ice.
- _____ 5. The weight of the top layers of snow causes the deep-packed snow to become ice crystals.

6. Why do glaciers flow like “rivers of ice”?

7. How and where are valley glaciers formed?

8. What type of glacier forms in mountain areas?

9. What is a continental glacier?

10. Describe the two ways glaciers move.

Directed Reading A *continued*

LANDFORMS CARVED BY GLACIERS

Match the correct description with the correct term. Write the letter in the space provided.

- | | |
|--|----------------------------|
| _____ 11. smaller glacial valleys that join the deeper main valley | a. horns |
| _____ 12. bowl-like depressions where glacial ice cuts into the mountain walls | b. hanging valleys |
| _____ 13. pyramid-shaped peaks that form when three or more cirque glaciers erode a mountain | c. arêtes |
| _____ 14. jagged ridges that form between two or more cirques cutting into the same mountain | d. cirques |
| _____ 15. valleys formed when a glacier erodes a river valley from its original V shape | e. U-shaped valleys |

TYPES OF GLACIAL DEPOSITS

16. All material carried and deposited by glaciers is called _____.

17. What are the two main types of glacial drift?

18. Unsorted rock material that is deposited directly by the ice when it melts is called _____.

19. A glacial deposit that is sorted and layered by streams or meltwater is called _____.

Directed Reading A *continued*



Identify each of the following descriptions as *stratified drift (S)* or *till deposit (T)*, and write S or T in the space provided.

- _____ **20.** Sediment built around a block of ice eventually forms a kettle.
- _____ **21.** Ridges are formed along the edges of glaciers.
- _____ **22.** Streams from glaciers carry sorted material to an area called an outwash plain.
- _____ **23.** Moraines form ridges along the edges of glaciers.

Match the correct definition with the correct term. Write the letter in the space provided.

- | | |
|--|----------------------------|
| _____ 24. forms from till left beneath a glacier | a. medial moraine |
| _____ 25. forms when sediment is dropped at the front of a glacier | b. lateral moraine |
| _____ 26. forms along the sides of a glacier | c. ground moraine |
| _____ 27. forms when valley glaciers with moraines along each side meet | d. terminal moraine |