

Chapter 7 Glaciers, Deserts, and Wind

Section 7.1 Glaciers



This section discusses the characteristics of different types of glaciers.

Reading Strategy

Building Vocabulary As you read this section, define each vocabulary term in your own words. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

| Vocabulary Term | Definition |
|------------------|------------|
| Ice age | a. |
| Glacier | b. |
| Snowline | c. |
| Valley glacier | d. |
| Ice sheet | e. |
| Glacial trough | f. |
| Till | g. |
| Stratified drift | h. |
| Moraine | i. |

Types of Glaciers

1.  A _____ is a stream of ice that flows between steep rock walls from a place near the top of a mountain valley.
2.  _____ cover large regions where the climate is extremely cold.

How Glaciers Move

3. Circle the letter of each sentence that is true about how glaciers move.
 - a. Glacial flow happens in two ways: plastic flow and basal slip.
 - b. All glaciers move at about the same speed.
 - c. The movement of a glacier depends upon the balance between accumulation and wastage.
 - d. Basal slip occurs because of gravity.

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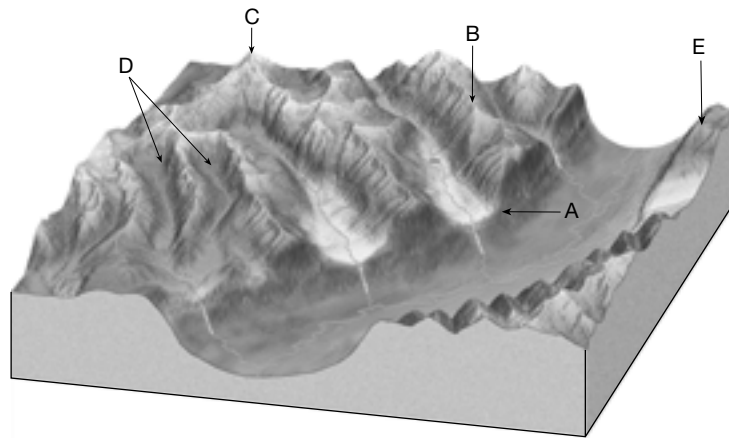
Glacial Erosion

4. Name and describe the two types of glacial erosion.

Landforms Created by Glacial Erosion

5. The area shown in the figure was subjected to alpine glaciation. Select the appropriate letter in the figure that identifies each of the following features.

- _____ cirque
- _____ glacial trough
- _____ hanging valley
- _____ horn
- _____ arête



Glacial Deposits

6. _____ applies to all sediments of glacial origin, no matter how, where, or in what form they were deposited.
7. The two types of glacial drift are _____ and _____.

Moraines, Outwash Plains, and Kettles

Match each description to its term.

| Description | Term |
|---------------------------------------------------------------------|-------------------|
| _____ 8. layers or ridges of till | a. end moraine |
| _____ 9. debris that forms at the end of a stationary glacier | b. kettle |
| _____ 10. debris that forms by a receding glacier | c. moraine |
| _____ 11. formed when blocks of stagnant ice become buried in drift | d. ground moraine |

Glaciers of the Ice Age

12. Is the following sentence true or false? During the recent ice age, the Northern Hemisphere had twice the ice of the Southern Hemisphere. _____