

Study Guide

CHAPTER 3

Section 1: Community Ecology

In your textbook, read about limiting factors.

Complete the table by checking the correct column(s) for each limiting factor.

Limiting Factor	Abiotic Factor	Biotic Factor
1. Temperature		
2. Rainfall		
3. Predator		
4. Soil chemistry		
5. Prey		
6. Plant nutrients		
7. Oxygen		
8. Sunlight		
9. Climate		
10. Producers		

In your textbook, read about ecological succession.

Use each of the terms below only once to complete the passage.

abiotic factors

climax community

ecological succession

ecosystems

fire

lava flow

pioneer species

primary succession

secondary succession

(11) _____ are constantly changing. Both (12) _____ and biotic factors change in every ecosystem. One type of ecosystem change, called (13) _____, results in one community replacing another over time. This process might begin on bare rock, such as a(n) (14) _____. The process begins when (15) _____ begin living on the rock. This process is called (16) _____. The mature community that eventually forms is called the (17) _____. Sometimes that community is destroyed by a(n) (18) _____. A new community will replace the destroyed one through the process of (19) _____.

Study Guide, Section 1: Community Ecology continued

In your textbook, read about primary succession.

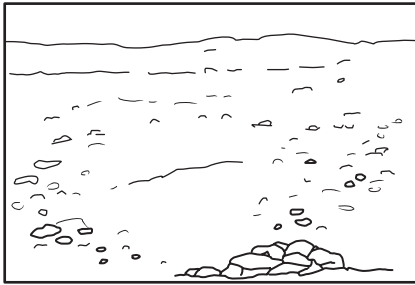
Number the pictures below in the order in which they occur, showing the changes that take place during primary succession.



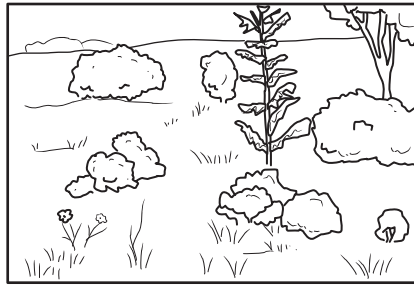
20. _____



22. _____



21. _____



23. _____

In your textbook, read about secondary succession.

Respond to each statement.

24. Name the material that is present for secondary succession that is not present for primary succession.

25. Cite two reasons why secondary succession is faster than primary succession.

26. Recall the name for the mature community that develops in secondary succession.

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Section 2: Terrestrial Biomes

In your textbook, read about the effects of latitude and climate.

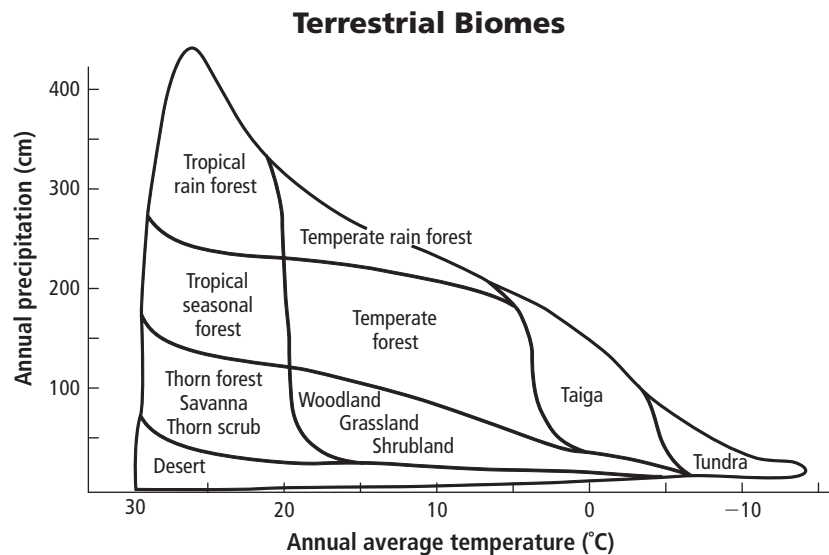
Complete the table by filling in the missing information.

Term	Definition
Weather	1.
Climate	2.
Latitude	3.

In your textbook, read about the major land biomes.

Refer to the figure below and the information in your textbook. Use each of the terms below only once to complete the passage.

desert less plants precipitation
 temperature tropical rain forest tundra



The biome that receives the most annual precipitation is the (4) _____, and the biome that receives the least annual precipitation is the (5) _____.

Biomes are classified primarily by the characteristics of their (6) _____.

The graph shows two other characteristics of biomes: (7) _____ and (8) _____. Based on the diagram, the biome that is most likely to have a permafrost layer is the (9) _____. Open woodlands have (10) _____ annual rainfall than temperate forests have.

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Section 3: Aquatic Ecosystems

In your textbook, read about aquatic ecosystems.

Complete the table by filling in the missing information.

Type of Aquatic Ecosystem	Description of Aquatic Ecosystem
Freshwater	1.
2.	where land and water or salt water and freshwater intermingle; includes wetlands and estuaries; does not look like a stream, a pond, or an ocean
3.	4.

In your textbook, read about lakes and ponds.

Complete the graphic organizer about the zones of lakes and ponds. Use these choices:

limnetic zone

littoral zone

profundal zone

