Section 4-3 Biomes (pages 98-105)

Solution Key Concept

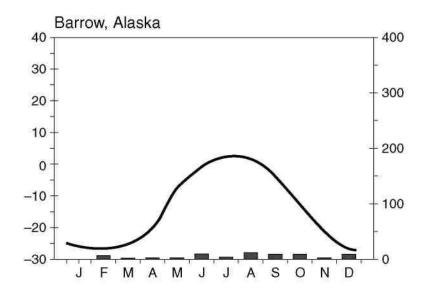
• What are the unique characteristics of the world's major biomes?

Introduction (page 98)

1. What is a biome? _____

Biomes and Climate (page 98)

- 2. What does a climate diagram summarize?
- 3. Complete the climate diagram by adding labels to the bottom and both sides of the graph to show what the responding variables are.



- **4.** On a climate diagram, what does the line plot, and what do the vertical bars show?
- 5. What is a microclimate?

	Class	Date			
The Major Biomes (pages 99-	104)				
6. Circle the letter of each sentence the is defined.	=	ach of the world's major biomes			
a. Each is defined by a unique set	t of abiotic factors.				
b. Each has a characteristic ecological community.					
c. Each is defined by the country	it is in.				
d. Each is particularly defined by	climate.				
Use the map in Figure 4–11 on page 9 with its geographic distribution.	99 of your textbook to n	natch the biome			
Biome	Geographic Dis	tribution			
7. Tropical rain forest		that occurs almost exclusively in			
8. Tundra	the Northern I	•			
9. Boreal forest		curs on or near the equator			
	c. Biome that occurs near or above 60°N latitude				
10. Complete the table about layers of	a tropical rain forest.				
LAYERS O	F A TROPICAL RAIN	FOREST			
Layer	Definition	Definition			
	Dense covering for	ormed by the leafy tops of tall trees			
	Dense covering for Layer of shorter to				
11. In what kind of place do tropical of	Layer of shorter to	rees and vines			
11. In what kind of place do tropical of	Layer of shorter to	rees and vines			
11. In what kind of place do tropical of the state of the	Layer of shorter to	rees and vines			
	Layer of shorter to	rees and vines			
12. What is a deciduous tree?	Layer of shorter to	rees and vines			
12. What is a deciduous tree? 13. What is another name for tropical	Layer of shorter to	rees and vines			
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12. What is a deciduous tree?13. What is another name for tropical14. Is the following sentence true or factorical	Layer of shorter to	nd in large parts of eastern			
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 12. What is a deciduous tree? 13. What is another name for tropical 14. Is the following sentence true or fafrica. 15. Circle the letter of each sentence true 	Layer of shorter to dry forests grow?savannas?savannas are four that is true about desert	nd in large parts of eastern			
 12. What is a deciduous tree? 13. What is another name for tropical 14. Is the following sentence true or factorica. 15. Circle the letter of each sentence to a. They are hot, day and night. b. The soils are rich in minerals be 	Layer of shorter to dry forests grow?	nd in large parts of eastern			
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lan	me Class Date
7.	What factors maintain the characteristic plant community of temperate grasslands?
8.	Why is fire a constant threat in temperate woodland and shrubland?
	Communities that are dominated by shrubs are also known as What kinds of trees do temperate forests contain?
1.	What is a coniferous tree?
2.	What is humus?
3.	What is the geographic distribution of the northwestern coniferous forest?
	Boreal forests are also called What are the seasons like in a boreal forest?
	Circle the letter of each sentence that is true about boreal forests. a. Dominant plants include spruce and fir. b. They have very high precipitation. c. They have soils that are rich in humus. d. Dominant wildlife includes moose and other large herbivores. What is permafrost?
	What happens to the ground in tundra during the summer?
9.	Why are tundra plants small and stunted?

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Otl	her Land Areas (page 105)			
30.	When are the polar regions cold?			
31.	What plants and algae can be found in the polar ice regions?			
32.	2. In the north polar region, what are the dominant animals?			
33.	33. The abiotic and biotic conditions of mountain ranges vary with			
34.	Number the sequence of conditions you would find as you moved from the base to the			
	summit of a mountain. Number the conditions at the base 1.			
	a. Stunted vegetation like that in tundra			
	b. Grassland			
	c. Forest of spruce and other conifers			
	d. Open woodland of pines			

Class

Date

Reading Skill Practice

Name

You can often increase your understanding of what you've read by making comparisons. A compare-and-contrast table helps you to do this. On a separate sheet of paper, make a table to compare the major land biomes you read about in Section 4-3. The characteristics that you might use to form the basis of your comparison could include a general description, abiotic factors, dominant plants, dominant wildlife, and geographic distribution. For more information about compare-and-contrast tables, see Organizing Information in Appendix A of your textbook.