Section 4–3 Biomes (pages 98–105)

TEKS FOCUS: 12C Compare variations, tolerances, and adaptations of plants and animals in different biomes

This section describes the unique characteristics of the world's major biomes. *It also describes other land areas.*

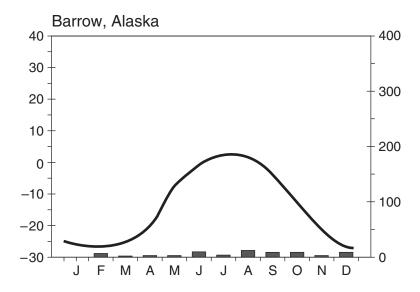
Introduction (page 98)

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? _____

Name	Class	Date
The Major Biomes (pages 99-1	103)	
6. Circle the letter of each sentend biomes is defined.	ce that is true about how	each of the world's major
a. Each is defined by a unique	e set of abiotic factors.	
b. Each has a characteristic eco	ological community.	
c. Each is defined by the coun	try it is in.	
d. Each is particularly defined	by climate.	
Use the map in Figure 4–11 on page 99 geographic distribution.	of your textbook to match t	he biome with its
Biome	Geographic Dis	tribution
7. Tropical rain forest	a. Forest biome th	nat occurs almost exclusively ir
8. Tundra	the Northern F	•
9. Boreal forest		urs on or near the equator
		urs near or above 60°N latitude
10. Complete the table about layer	rs of a tropical rain fores	t.
LAYERS	OF A TROPICAL RAIN F	OREST
LAYERS	OF A TROPICAL RAIN F	OREST
	Definition	med by the leafy tops of tall trees
	Definition	med by the leafy tops of tall trees
	Definition Dense covering for Layer of shorter tree	rmed by the leafy tops of tall trees ees and vines
11. In what kind of place do tropio	Definition Dense covering for Layer of shorter tre cal dry forests grow?	rmed by the leafy tops of tall trees ees and vines
11. In what kind of place do tropio	Definition Dense covering for Layer of shorter tre cal dry forests grow?	rmed by the leafy tops of tall trees ees and vines
11. In what kind of place do tropic 12. What is a deciduous tree?	Definition Dense covering for Layer of shorter trees and dry forests grow?	rmed by the leafy tops of tall trees ees and vines
11. In what kind of place do tropic 12. What is a deciduous tree? 13. What is another name for tropic 14. Is the following sentence true of Africa.	Definition Dense covering for Layer of shorter trees all dry forests grow?	rmed by the leafy tops of tall trees ees and vines und in large parts of eastern
11. In what kind of place do tropic 12. What is a deciduous tree? 13. What is another name for tropic 14. Is the following sentence true of	Definition Dense covering for Layer of shorter tre cal dry forests grow? ical savannas? or false? Savannas are for ce that is true about dese	rmed by the leafy tops of tall trees ees and vines und in large parts of eastern
11. In what kind of place do tropic 12. What is a deciduous tree? 13. What is another name for tropic 14. Is the following sentence true of Africa 15. Circle the letter of each sentence	Definition Dense covering for Layer of shorter trees and dry forests grow?	ees and vines und in large parts of eastern
 11. In what kind of place do tropic 12. What is a deciduous tree? 13. What is another name for tropic 14. Is the following sentence true of Africa 15. Circle the letter of each sentence a. They are hot, day and night 	Definition Dense covering for Layer of shorter trees and dry forests grow?	ermed by the leafy tops of tall trees ees and vines und in large parts of eastern erts. aterial.
11. In what kind of place do tropic 12. What is a deciduous tree? 13. What is another name for tropic 14. Is the following sentence true of Africa 15. Circle the letter of each sentence a. They are hot, day and night b. The soils are rich in mineral	Definition Dense covering for Layer of shorter trees and dry forests grow?	ermed by the leafy tops of tall trees ees and vines und in large parts of eastern erts. aterial.

Naı	ne Date		
Ot	ner 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.	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		

Reading Skill Practice

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-andcontrast tables, see Organizing Information in Appendix A of your textbook.