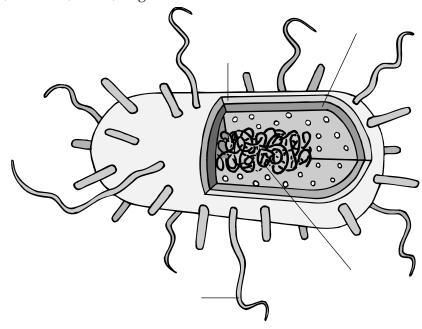
Nar	me	Class	Date
Sc	action 19_1 Bactor	(ia (nonce 4)	71 477\
	ection 19–1 Bacter	ia (pages 4)	/ I <del>-4</del> //)
	Key Concepts		
	How do the two groups of prokar		
	What factors are used to identify		
	What is the importance of bacteria	a?	
	troduction (page 471)		
1.	What are prokaryotes?		
2	Is the following sentence true or fa	leo2 Prokarvotoe	are much emaller than most
۷.	eukaryotic cells.		are much smaner than most
Cl <sub>2</sub>	-		
	assifying Prokaryotes (pag What are the two different groups		
٥.	a	•	
1			otes?
	Where do eubacteria live?		
٥.	vviicie do cubacteria rive:		
6.	What protects a prokaryotic cell from	om iniury?	
7.	Circle the letter of what is within the	he cell wall of a pi	rokaryote.
		<b>c.</b> archaebacteria	•
	<b>b.</b> cell membrane	d. pili	
	What is peptidoglycan?	•	
9.	Some eubacteria have a second		_ outside the cell membrane.
10.	Circle the letter of each sentence th	at is true about ar	chaebacteria.
	a. Their membrane lipids are diffe	erent from those of	f eubacteria.
	<b>b.</b> They lack a cell wall.		
	<b>c.</b> They lack peptidoglycan.		
	d. They look very similar to eubac	teria.	
11.	What is significant about the DNA	sequences of key	archaebacterial genes?
			0
12.	How are archaebacteria related to	eukaryotes?	

Name	Class	Date
13. What are methanogens, and where d	lo they live?	

## **Identifying Prokaryotes** (page 473)

**14.** Use the following labels to complete the illustration of a typical prokaryote: cell membrane, cell wall, DNA, flagellum.



15.	What are fo	ur character	istics used to	identify '	prokaryotes?

a.		
h		

υ.		

- **16.** What are each of the differently shaped prokaryotes called?
  - **a.** The rod-shaped are called \_\_\_\_\_\_.
  - **b.** The spherical-shaped are called \_\_\_\_\_\_.
  - **c.** The corkscrew-shaped are called \_\_\_\_\_\_.

17.	A method	of telling to	wo different	types	of eubacteria	apart by	using dyes	s is called

- **18.** What colors are Gram-positive and Gram-negative bacteria under the microscope when treated with Gram stain?
- 19. What are flagella?

Name	Class	Date
Matabalia Di		
	/ersity (pages 473–474)	thal-tair
21. Complete the t	able about prokaryotes classified by the	, ,
	GROUPS OF PROKARYOTE	<b>ES</b>
Group	Description	
	Organism that carries out photosynthesis in	a manner similar to that of plants
Chemoautotroph		
	Organism that takes in organic molecules an	nd then breaks them down
Photoheterotroph		
	hich group of photoautotrophs contain a	ı bluish pigment and
	emoautotrophs that live near hydrother	
obtain energy?		
24. Complete the t	able about prokaryotes classified by the	way they release energy
	GROUPS OF PROKARYOTE	
Group	Description	
•	Organisms that require a constant suppl	y of oxygen
		, , , ,
Obligate anaerobes		
Facultative anaerob	es	
<b>25.</b> Facultative ana	ierobes can switch between cellular respii	ration and
	•	
	Reproduction (page 475)  the process of binary fission?	
	The process of biliary fission:	
27 What accure d	uring conjugation?	
	uring conjugation?	
<b>28.</b> Is the followin	g sentence true or false? Most prokaryot	es reproduce by conjugation.
-		

me Class Date
What is an endospore?
portance of Bacteria (pages 476–477)  How do decomposers help the ecosystem recycle nutrients when a tree dies?
What would happen to plants and animals if decomposers did not recycle nutrients?
Why do plants and animals need nitrogen?
How does nitrogen fixation help plants?
What kind of relationship do many plants have with nitrogen-fixing bacteria?
How can bacteria be used to clean up an oil spill?
What have biotechnology companies begun to realize about bacteria adapted to extreme environments?

## **Reading Skill Practice**

Writing a summary can help you remember the information you have read. When you write a summary, write only the most important points. Write a summary of the information under the green heading Decomposers. Your summary should be shorter than the text on which it is based. Do your work on a separate sheet of paper.