E	ection 19-1 Bacteria (pages 471-477)					
	Key Concepts					
•	How do the two groups of prokaryotes differ?					
0	What factors are used to identify prokaryotes?					
0	What is the importance of bacteria?					
nt	roduction (page 471)					
1.	What are prokaryotes?					
2.	Is the following sentence true or false? Prokaryotes are much smaller than most eukaryotic cells					
Cla	nssifying Prokaryotes (pages 471–472)					
	What are the two different groups of prokaryotes?					
	a b					
4.	4. Which is the larger of the two kingdoms of prokaryotes?					
5.	Where do eubacteria live?					
6.	6. What protects a prokaryotic cell from injury?					
7.	Circle the letter of what is within the cell wall of a prokaryote.					
	a. another cell wall c. archaebacteria					
	b. cell membraned. pili					
8.	What is peptidoglycan?					
9.	Some eubacteria have a second outside the cell membrane.					
0.	Circle the letter of each sentence that is true about archaebacteria.					
	a. Their membrane lipids are different from those of eubacteria.					
	b. They lack a cell wall.					
	c. They lack peptidoglycan.					
	d. They look very similar to eubacteria.					
1.	What is significant about the DNA sequences of key archaebacterial genes?					
	How are archaebacteria related to eukaryotes?					

Class_____

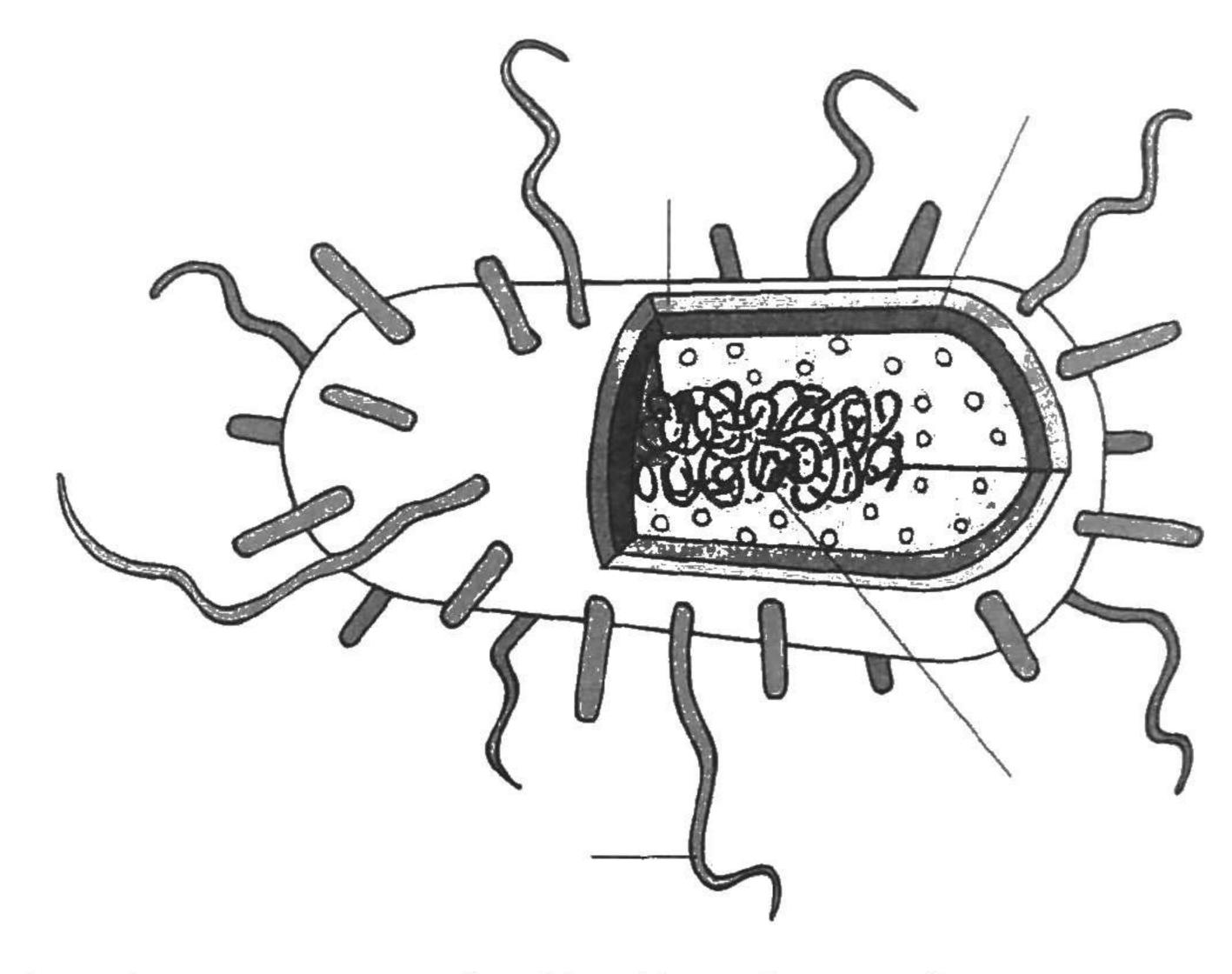
Date _____

Name____

Name	Class	Date
13. What are methanogens, and whe	re do they live?	

Identifying Prokaryotes (page 473)

14. Complete the illustration of a typical prokaryote by labeling the parts.



15.	What are four characteristics used to identify prokaryotes?
	a
	b
	C
	d
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 two different types of eubacteria apart by using dyes is called
18.	What colors are Gram-positive and Gram-negative bacteria under the microscope
	when treated with Gram stain?
19.	What are flagella?

20. Is the following sentence true or false? Some prokaryotes do not move at all.

Name

Group

Chemoautotroph

Photoheterotroph

Metabolic Diversity (pages 473-474)

Description

chlorophyll a? _____

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Date

Class

Organism that carries out photosynthesis in a manner similar to that of plants

Organism that takes in organic molecules and then breaks them down

21. Complete the table about prokaryotes classified by the way they obtain energy.

22. Members of which group of photoautotrophs contain a bluish pigment and

GROUPS OF PROKARYOTES

JameCla	ass	Date			
9. What is an endospore?					
		when a tree dies?			
I. What would happen to plants and anima	ls if decomposers	did not recycle nutrients?			
2. Why do plants and animals need nitroger	1?				
3. 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?				
		ıt bacteria adapted			
o.	What is an endospore? portance of Bacteria (pages 476 How do decomposers help the ecosystem What would happen to plants and animal Why do plants and animals need nitroger How does nitrogen fixation help plants? What kind of relationship do many plants How can bacteria be used to clean up an o	What is an endospore? portance of Bacteria (pages 476–477) How do decomposers help the ecosystem recycle nutrients What would happen to plants and animals if decomposers Why do plants and animals need nitrogen? How does nitrogen fixation help plants?			

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.