Name	KEY	Class	Date
Se	ction 19-1	Bacteria	4
1	troduction (page 1. What are prokaryo	es? Unicellular or	ganisms that lack
2	. Is the following ser eukaryotic cells	tence true or false? Prokaryotes	are much smaller than most
C	lassifying Proka		
3	3. What are the two d	ifferent groups of prokaryotes?	cteria
	5. Where do eubacter	ia live? almost any	everywhere water,
7	. Circle the letter of v	what is within the cell wall of a p	rokaryote.
	a. another cell wal		
	b. cell membrane	d. pili	and a selection of a short and
6	3. What is peptidogly	rean? a carb in the	e cell walls of eurocere
		ave a secondmembran	
1(each sentence that is true about a	
		e lipids are different from those (of eubacteria.
	b. They lack a cell	wall.	
	c. They lack pepti		
	d. They look very	similar to eubacteria.	and the same of th
13.	What are methanogo	ens, and where do they live? Jive in Drygen-fromud	they produce methane se environment, such
	entifying Proka	ryotes	
15.		cteristics used to identify prokar	yotes?
	a shape		
	b. chemia	al nature of their ce	<u>Il walls</u>
	c. + how	mey move	
	d. Now t	ney obtain energi	4

16. What ar	e each of the differently shaped pro	okaryotes called?			
a. The rod-shaped are called					
b. The spherical-shaped are called					
	corkscrew-shaped are called $-\!\!-\!$				
	od of telling two different types of	eubacteria apart by using dyes is called			
		negative bacteria under the microscope			
when t	reated with Gram stain?	n + are violet gram -			
VII.CLE II	re real pink	10.			
Match	the term with the correct definition.				
4	21. heterotroph	a. Performs photosynthesis but also needs to take			
a	22. photoheterotroph	 in carbon compounds b. Performs chemosynthesis (makes organic compounds from inorganic chemical sources); 			
		does not require light			
	23. photoautotroph	c. Uses light energy to convert CO ₂ and H ₂ O to carbon compounds			
P	24. chemoautotroph	d. Obtains energy by taking in organic molecules then breaking them down			
26. What 27. What 28. Is the 29. What is a	an endospore? a spore for wes a thick, interest DNA and some o	es DNA + divides in half			
30. How do	wn into simpler m	ree tissue, break the tissue			
Plan		pinerals in the soil and die.			

32. Why do plants and animals need nitrogen? To make amino acids

33. How does nitrogen fixation help plants? It converts Ny gas into a form the

34. What kind of relationship do many plants have with nitrogen-fixing bacteria?

Symbiotic mutualism

35. How can bacteria be used to clean up an oil spill? One type can

Prokaryote Structure

A prokaryote is a unicellular organism that lacks a nucleus. Most prokaryotes have a cell wall, a cell membrane, and cytoplasm. The bacterium below is one example of a prokaryote.

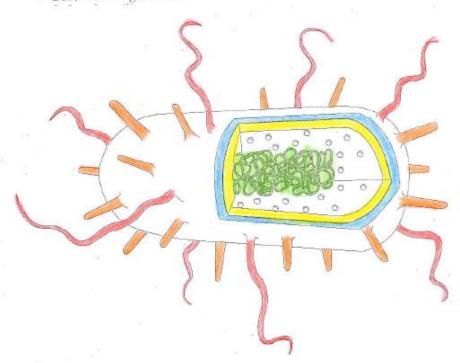
Follow the prompts to locate structures in a typical bacterium.

Color the cell membrane yellow.

Color the pili orange.

Color the cell wall blue.Color the flagella red.

Color the DNA green.



Use the diagram to answer the questions. Circle the correct answer.

1. What does the bacterium use to move?

pili flagellum

2. What is the bacterium's genetic material called?

cell membrane

