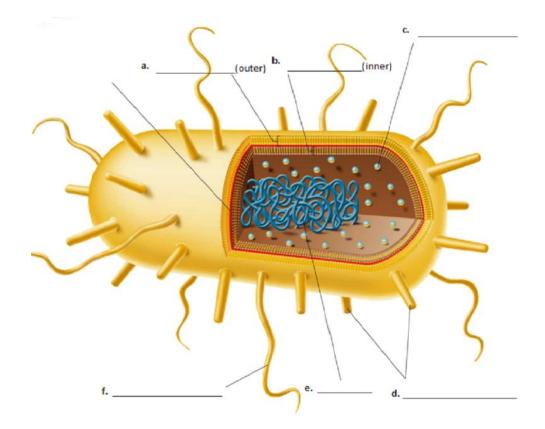
N	ame Block Desk #			
	BACTERIA AND VIRUSES			
Ic	lentifying Bacteria:			
1.	What are prokaryotes? They arecelled organisms with no			
	bound organelles.			
2.	True or false: prokaryotes are much larger that eukaryotes			
3.	What are the two groups of prokaryotes: &			
4.	What group is the largest of the two?			
5.	Where can eubacteria live?			
6.	6. Circle the letter of what is under the cell wall in a prokaryote:			
	a. another cell wall c. archaebacteria			
	b. cell membrane d. cilia			
7.	What is peptidoglycan? It is the main component of a in eubacteria.			
8.	3. Circle the letter of each sentence that is true about archaebacteria:			
	a. Their membrane lipids are different from those of eubacteria.			
	b. They don't have a cell wall.			
	c. They don't have peptidoglycan			
	d. They look very similar to eubacteria			

9. In the following diagram, LABEL the indicated parts of a typical prokaryote:



- 10. What are each of the differently shaped prokaryotes called?
 - a. The rod-shaped are called _____
 - b. The sphere-shaped are called _____

in a chain _____

in a cluster _____

c. The corkscrew-shaped are called _____

11. What protects a prokaryotic cell from injury or harm? _____

12. A way to identify bacteria's cell wall using dyes is called _____

13. Some bacteria have a second, outer cell _____

14. What color are

a. gram negative bacteri	a			
b. gram positive bacteri	α			
15	_ are long, whip-like tails used to propel ba	cteria.		
16. True or false: Most bacteria don't move at all				
17. Finish the following table:				
<u>Group</u>	Description			
	Organism that carries out photosynthesis	like plants		
Chemoautotroph	Uses energy from	_molecules		
	Organism that breaks down organic molecules			
Photoheterotroph	Organism that does	but still needs		
	nutrients from the			

18. Identify the following kinds of bacteria based on where they grow, showing their

a. Obligate ______
b. ______anaerobe
c. Obligate ______

19. Which bacteria in #18 above, does cellular respiration

Circle your answer (all that apply): a. b. c.

- 20. ______ is how bacteria exchange DNA through a hollow tube.
- 21. When conditions are bad, some bacteria can form an ______ which

protect its ______ until conditions are favorable to grow again.

<u>Bacteria in Nature:</u>

22.	Plants and animals need nitr	ogen to make	for protein.
23.	What is nitrogen fixation?	When bacteria change	into a

_____ form.

24. What kind of symbiotic relationship do many plants have with nitrogen fixing bacteria?

24. Pathogens are bacteria that cause _____.

25. What percent of bacterial species actually cause disease? _____

26. What are the two ways bacteria can cause disease?

a. make _____ b. tissue _____

27. What kind of tissue is affected with *M. tuberculosis*? _____

28. What are most kinds of food poisonings caused by? Bacteria making _____

29. What toxin is the most deadly biotoxin?

- 30. Robert Koch tried to support the germ theory with his Postulates. He isolated bacteria from a cow with anthrax, then injected the bacteria into a healthy mouse. According to Koch's Postulates, what must have happened to the healthy mouse? (Circle your answer)
 - a. It became sick c. It produced antibiotics
 - b. It spread smallpox d. It became immune to viral infections.

31.	True or false? Antibiotics kill bacteria.		
32. What are two treatments that can be used to sterilize?		o sterilize?and	
	like disinfectants and preservatives.		
<u>Vir</u>	<u>ises:</u>		
33.	What is a virus? It is an	parasite that must infect a host to	
	be able to		
34.	True or false? Most viruses are so small, the	it they can be seen only with an electron	
	microscope.		
35. Circle the letter of what a virus' protein coat is called.		t is called.	
	a. capsid	c. head	
	b. envelope	d. lysis	
36. Circle the letter of what a typical virus core is made of		is made of	
	a. capsids	c. membrane envelopes	
	b. surface proteins	d. DNA or RNA	
37. Circle the letter of each sentence that is true about a lysogenic		e about a lysogenic infection.	
	a. The virus lyses the host cell immediately.		
	b. The virus inserts its DNA into the host's DNA.		
c. The virus' DNA is copied along with the host cell's DNA. d. A host cell makes copies of the virus forever.		host cell's DNA.	
		rever.	

38.	Complete the following flow chart about a <i>lytic</i> infection:		
	a. The virus attaches to the host		
	b. The virus injects its	into the cell.	
	c. The cell makes virus parts using the v	<i>v</i> irus'	
	d. The host puts together	_particles.	
	e. The host cell immed	iately, releasing lots of viruses.	
39.	A is what viral DNA is c	alled once it has become part of the host's	
	DNA		
40.	What are at least 2 diseases caused by a v	virus	
41.	What is a vaccine? It is weakened bacter act like an which is	ia or viruses (or of them) that s something that gets to body to make	
42.	Viruses that can cause cancer are called _	viruses.	
43.	Circle what a retrovirus has what in its co	re:	
	a. capsid	c. RNA	
	b. DNA	d. protein	
44.	Reverse transcriptase is an	used by retroviruses to make	
	from		
45.	Circle what an infectious protein is called:		
	a. virus	c. bacteria	
	b. anion	d. prion	