

Name: _____

Characteristics of Bacteria Worksheet

Big Idea!

Bacteria are microscopic organisms that lack a membrane-bound nucleus and membrane-bound organelles.

Ideas

Bacteria are usually unicellular prokaryotes.

Bacteria reproduced by binary fission or conjugation.

Bacteria can survive harsh conditions by forming endospores.

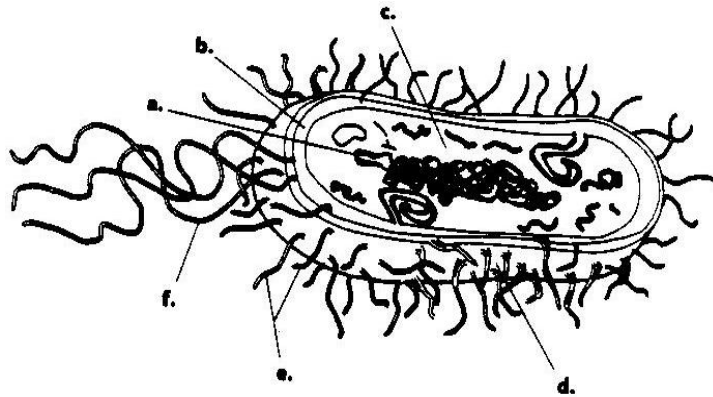
Words

Plasmids endospores binary fission conjugation

Part A

Match each lettered part of the diagram to its cell structure by writing its letter on the line provided.

- _____ 1. DNA
- _____ 2. Cell membrane
- _____ 3. Flagella
- _____ 4. Cell Wall
- _____ 5. Pili
- _____ 6. Cytoplasm



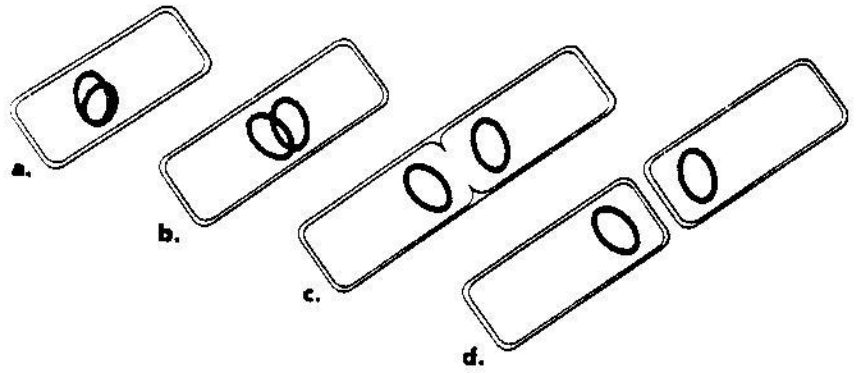
Part B

Match each term in Column B with its description in Column A by writing its letter on the line provided.

- | | |
|--|-------------------|
| _____ 1. small pieces of circular DNA | a. binary fission |
| _____ 2. chromosome replication, followed by cell division | b. conjugation |
| | c. endospore |
| _____ 3. special, dehydrated cell formed when conditions are unfavorable | |
| _____ 4. exchange of genetic material through cell-to-cell contact | d. pili |
| _____ 5. hair-like structures on the surface of bacteria | e. plasmid |

Part C

1. How does binary fission differ from conjugation?



2. What is a way in which Bacteria can share genetic information?

3. What is the main feature that distinguishes Bacteria cells from cells of other organisms in other kingdoms?

4. Name the 3 shapes of bacteria.

- a.
- b.
- c.

Archaeobacteria and Eubacteria

1. What are three types of environments in which archaeobacteria are found?

2. Where is the genetic material of a bacterium found?

3. What structure do some bacteria use to move?

Compare/Contrast Archaea and Eubacteria

Archaea ONLY	Eubacteria ONLY	Archaea & Eubacteria

Please turn to page 486 to help you fill out the chart below. In your own words, how is each disease transmitted?

Diseases Caused by Bacteria

Disease	Bacterium	Effect on Body	Transmitted
Lyme Disease			
Tetanus			
Tuberculous			
Diphtheria			
Bacterial Meningitis			
Strep Throat			
Tooth Decay			