

Name _____

Date ____ / ____ / ____

BACTERIAL ANATOMY AND REPRODUCTION

Bacterial anatomy

A typical moneran is diagrammed below. Provide the labels for the parts and state the function or purpose of each structure.

a. Flagella _____

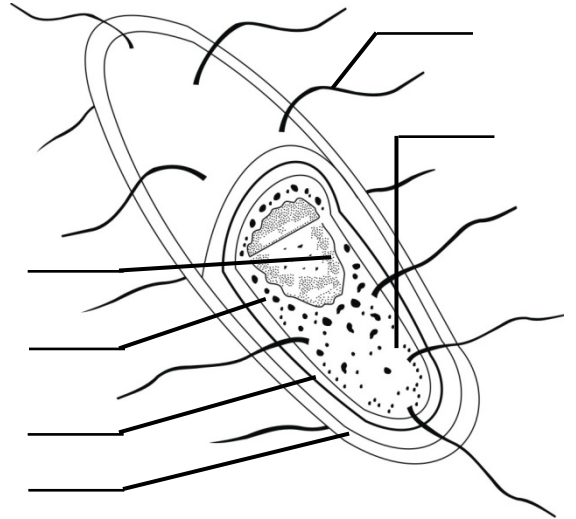
b. Ribosomes _____

c. Nucleoid _____

d. Cell wall _____

e. Cell (plasma) membrane _____

f. capsule _____



Bacterial conjugation

The bacteria undergoing conjugation, a means of genetic transfer but not reproduction, is diagrammed below. Conjugation occurs when a plasmid is transferred from a donor bacterium to a recipient. On the diagram below, label the plasmid, the donor bacterium, the recipient bacterium, and the cytoplasmic bridge.

Answer these questions.

1. Bacterial reproduction occurs by which process?

2. Under unfavorable conditions, some bacteria form what type of structures?

3. What do the monerans lack in their cell structure that is present in most other organisms?

4. Are monerans prokaryotic or eukaryotic?

