

Claims and Evidence Notes for Bacteria

You have been given a list of claims or topic sentences from Chapter 2, Section 2 in your From Bacteria to Plants science textbook. Some are word for word and some are paraphrased. Some are correct, some are wrong. Your assignment is twofold; first you must locate the claim in the text and provide evidence that either supports the claim or refutes the claim. Then you must write your analysis of why that evidence supports or refutes. Create a T-chart for each claim, writing the evidence and analysis underneath.

Claim or topic sentence

Evidence

Analysis (how evidence supports or refutes claim)

Claims for Chapter 2, Section 2 (pages 48-57)

1. Most bacterial cells only have a rigid cell wall that protects the cell but has no other organelles.
2. All bacterial cells have structures including genetic material without a nuclear membrane, ribosomes, cell wall, cell membrane, cytoplasm, and a flagellum.
3. Some bacteria are autotrophs and make their own food.
4. Some bacteria are heterotrophs and cannot make their own food.
5. Like all organisms, bacteria need a constant supply of energy to carry out their functions.
6. Bacteria reproduce by a process called binary fission, in which one cell divides to form two identical cells.
7. Some bacteria may at times undergo sexual reproduction joining egg and sperm
8. Endospores can help bacteria survive for only a short time.
9. Bacteria only serve ONE role in nature: to make us sick.
10. Ancient cultures lacked refrigeration and other modern methods of preventing food spoilage.