

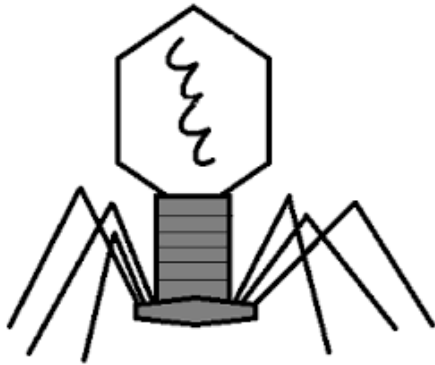
Life Sciences 11
Microbiology Study Questions

Name:
Date:
Block:

Unit test will be on Viruses and Bacteria. Test will be comprised of multiple choice and short answer questions.

Viruses

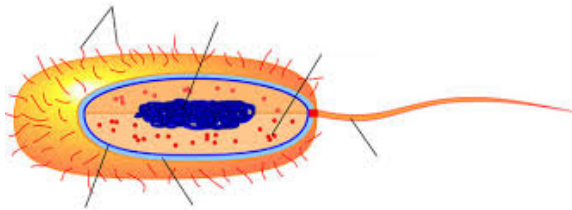
1. Examine the image of a typical bacteriophage (virus that infects bacteria). Identify each part of the virus and describe its function.



2. With the aid of a diagram, describe the steps of the lytic life cycle of infection.
3. With the aid of a diagram, describe the steps of the lysogenic life cycle of infection.
4. Compare and contrast the lytic cycle vs the lysogenic cycle.

Bacteria

5. Label the parts of the bacteria below and indicate the function of the capsule, pilus and flagellum.



6. Use a diagram to explain the process of reproduction in bacteria.
7. What is an Endospore? How does it form?
8. List three shapes of bacteria (scientific name) and draw them.
9. What is the difference between autotroph and heterotroph? Chemotroph and phototroph?
10. List some benefits & harmful aspects of bacteria.
11. Explain the difference between gram-positive and gram-negative bacteria.