**Microbiology Reading Guide Name:**

1-3

1. What are the characteristics of living things? Explain each.

19-1

1. What is a prokaryote?
2. How can we identify prokaryotes?
3. Compare and contrast eubacteria and archaebacteria
4. Explain the 4 modes of nutrition (ways of obtaining energy) in bacteria.
5. Describe 3 types of bacteria in relation to how they use oxygen.
6. How do bacteria grow and reproduce?
7. How are bacteria important ecologically and also to humans?

19-2

1. How were viruses discovered?
2. What is a virus?
3. Draw and label the structure of different types of viruses.
4. Draw and explain the lytic and lysogenic cycles.
5. What is a retrovirus? What advantages do they have over other viruses?
6. Why are viruses considered parasites?

19-3

1. How do bacteria cause disease in humans?
2. Describe a bacteria which can infect both animals and humans.
3. How can bacteria be controlled?
4. How can bacterial infections be treated?
5. How do viruses cause disease in humans?
6. How can viral infections be treated?

40-1

1. How are diseases spread?
2. What are antibiotics?

40-2

1. What is your body's first line of defense against pathogens?
2. What role do phagocytes have in in your body's second line of defense against pathogens?
3. What are interferons and how do they help to protect you from pathogens?
4. What is an antigen?
5. What are antibodies and how do they work?
6. What is a vaccine and how does it work?

40-3

1. What kind of virus in HIV?
2. What does HIV do to your immune system?