**Archae, Bacteria, and Viruses Practice Questions**

1. What is binary fission and what type of reproduction is it?
2. Where can archaea be found?
3. What are the three shapes of bacteria? Draw them.
4. Describe bacteria:
5. Describe viruses:
6. What does a virus need from the host it infects?
7. Compare and contrast binary fission and the lytic cycle.
8. Draw the steps of the lytic cycle.
9. Compare and contrast prokaryotes and eukaryotes.
10. Give examples of extreme environments where archaea can be found.
11. How can bacteria survive extreme environments?
12. What happens to a host cell infected with a virus?
13. Which domains are prokaryotic? Which are eukaryptic?
14. What does a host cell do for a virus that it cannot do on its own?
15. Compare and contrast Bacteria and Archaea?
16. What would make scientists classify viruses as living?
17. What characteristics do viruses share with living things?
18. What characteristics do viruses not have that living things do have?
19. Explain the lysogenic cyle: