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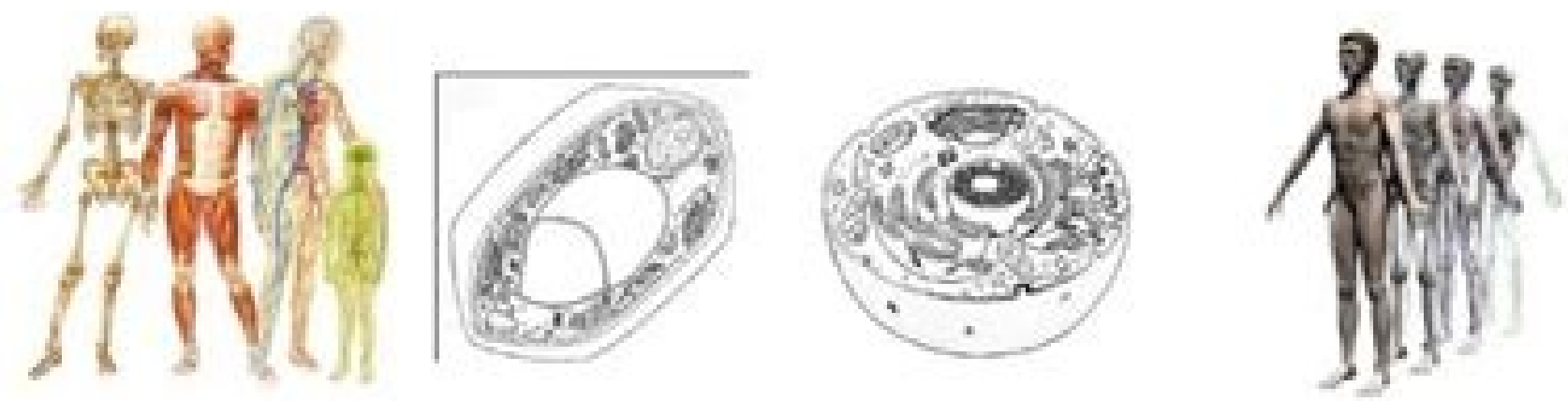
  
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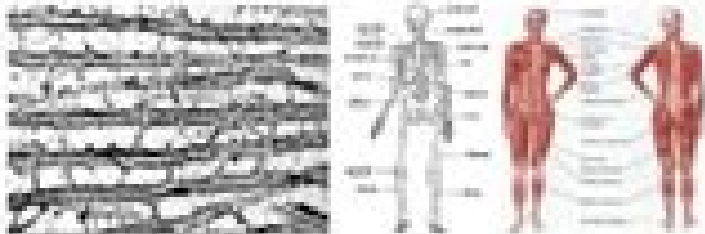
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Comparing Cell Organelles to Human Body Systems

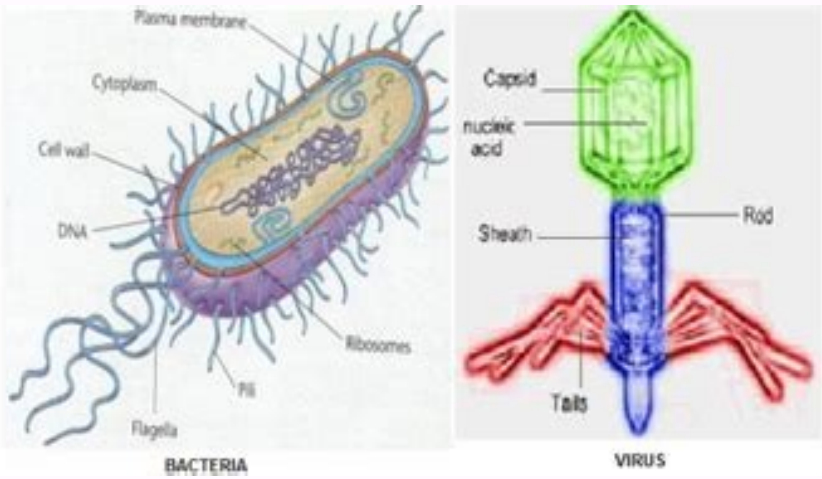
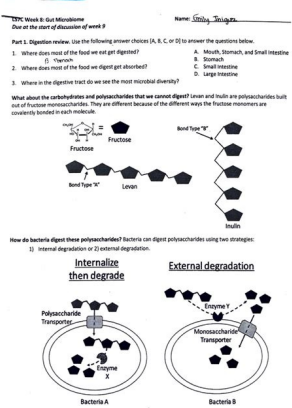


As we have studied the human body, we have been comparing cell organelles to our body systems. In many cases, there is a cell organelle that performs the same function for the cell that one of our body systems does for us.

For this assignment, you will be given a writing prompt. For each prompt, you will need to write at least 3 sentences explaining why the listed cell organelle(s) is like the body system. Use your power points from your binder and the charts on your table to help you complete this assignment.

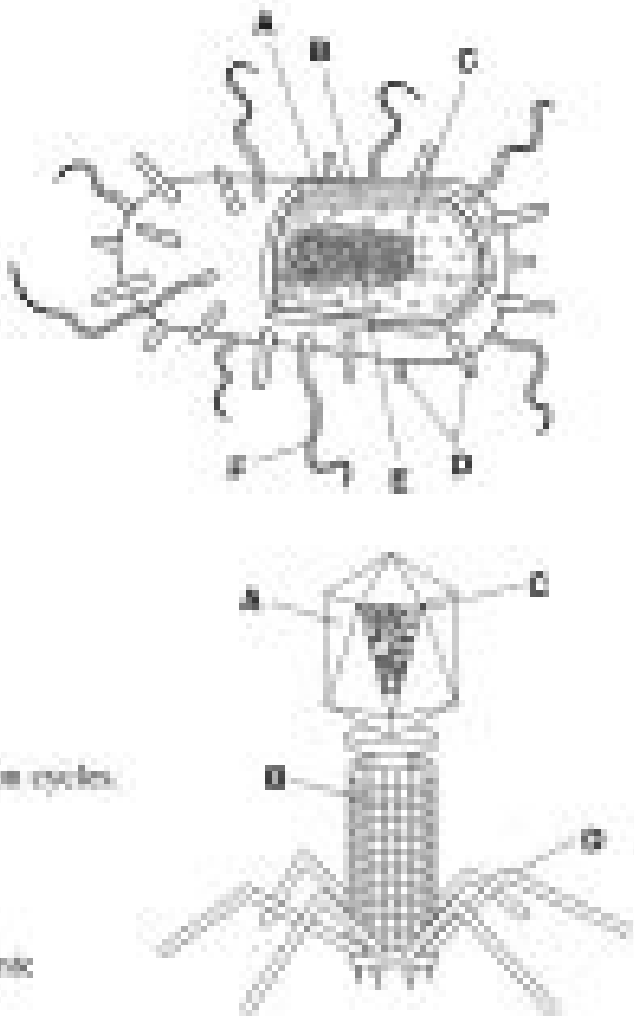


The microtubules in the cell are like the skeletal and muscular system because

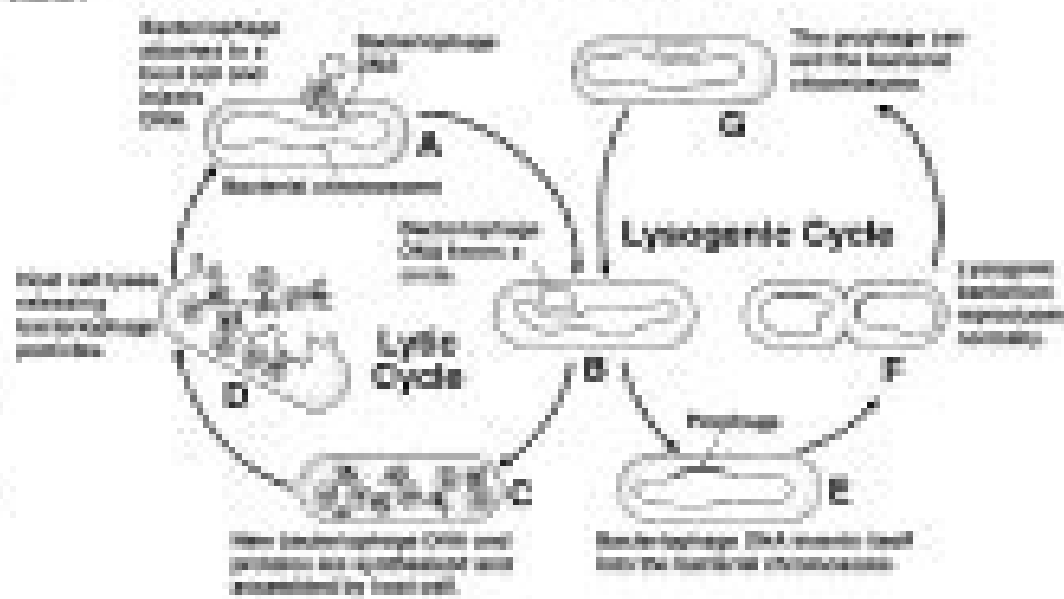


Unit 8 (Ch. 18 & 37):  
Physiology Part 1 – Bacteria, Viruses, & the Immune System

- 18.1 Bacteria**
1. What type of bacteria lives in extreme environments?
  2. Draw spirilla, bacillus, and coccus bacteria.
  3. Be able to identify the structures of a bacterium.
  4. What is Gram staining? What color is Gram-positive? Gram-negative?
  5. What are flagella used for?
  6. Which bacteria cannot live in the presence of oxygen? Which bacteria must have oxygen? Which bacteria can live with or without oxygen?
  7. How are Archaea and Bacteria different?
  8. What is conjugation? What is the benefit to bacteria?
  9. What is an endospore? When would bacteria need this?
  10. How do bacteria reproduce?
  11. How do bacteria cause an infection?
  12. What is a plasmid?



- 18.2 Viruses**
13. Know the parts and functions of bacteriophages.
  14. Know the sequence of events in the lytic and lysogenic infection cycles.
  15. What is happening in step D?
  16. What is happening in step A?
  17. What is a capsid? What is it made of? What does it do?
  18. What is the basic structure of a virus? (2 parts)
  19. What occurs in a lytic infection that does not occur in a lysogenic infection?
  20. What is a prophage? What is it made of?
  21. How do viruses cause an infection in the host cell?
  22. In a lytic infection, can the host cell be infected a second time? Why or why not?
  23. What does virus mean in Latin?
  24. In the bacteriophage diagram, identify A-D.
  25. Are viruses living? Why or why not?
  26. What is a retrovirus? Give an example.
  27. How can someone contract HIV?
  28. What is the main difference between HIV and AIDS?
  29. Why is a person with AIDS more likely to get sick with other diseases?







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