

Immune System, Viruses and Bacteria Review

1. What Kingdom(s) can bacteria be classified in?
2. What are characteristics of all bacteria? Eubacteria? Archaeobacteria?
3. Draw the structure of a general bacteria.
4. How are prokaryotes identified?
5. What are the different shapes of bacteria?
6. How do bacteria grow and reproduce?
7. What is a virus?
8. Compare size and structure of viruses



9. Can any virus infect any cell?
10. Draw a bacteriophage and label parts of its structure
11. Compare the lytic and lysogenic cycles of infection
12. Are viruses living? Explain.
13. What is a pathogen? Give examples of types of pathogens
14. Why is the human body ideal conditions for growth?
15. How are diseases spread? Give examples
16. What is the function of the immune system?
17. What is the difference between non-specific and specific defenses?

18. Identify components of the first line of defense and how each help the immune system.
19. Identify the 2 immune responses of the second line of defense
20. Identify the aspects of the innate immune response and the cells/action that are involved
21. How does the specificity between antigen and antibody relate to the acquired immune response
22. Identify and describe the roles of various cells of the acquired immune response
23. Give examples of ways to reduce the spread of diseases
24. Compare Active and Passive Immunity
25. Describe how a vaccine provides immunity

26. Describe how the immune system is involved with allergies
27. Describe why the HIV virus is problematic for the human immune system and distinguish it from AIDS
28. Describe various means to help keep your immune system running optimally
29. What is Herd immunity?
30. How has the internet and social media influenced the vaccination rate of different communities?
31. What is an antibiotic?
32. What are antibiotics used for?
33. What is antibiotic resistance?
34. How can we help prevent antibiotic resistance?