

*Book pages - 433 - 451*

Name: \_\_\_\_\_ Row: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Introduction to Bacteria and Viruses

1. What is the official name of the smallest and simplest cells? \_\_\_\_\_
2. What is the modern version of these cells called? \_\_\_\_\_
3. Bacteria are single-cell or multi-cellular organisms? \_\_\_\_\_

4-16. Fill in the following table with Yes or No answers.

Questions	Eukaryote	Prokaryote	Virus
Is made out of a cell or cells?			
Has a nucleus?			
Is considered living?			
Can move on their own?			
Can reproduce or replicate?			
Has DNA?			
Has specialized structures or internal compartments?			
May have a cell wall?			
Has membrane-bound organelles?			
Has ribosomes?			
Has cytoplasm?			
Has chloroplast?			
Has mitochondrion?			

17. How does bacteria reproduce? \_\_\_\_\_
18. What are the two classification kingdoms for prokaryotes? \_\_\_\_\_ & \_\_\_\_\_
19. What does the chromosomes look like in bacteria? \_\_\_\_\_

20. What do bacteria use to move? \_\_\_\_\_

21. What do bacteria have surrounding their cell membrane? \_\_\_\_\_

33-38. Draw and title the three different shapes of bacteria


28. What two things are typical viruses made of? \_\_\_\_\_ & \_\_\_\_\_

29. What part of the virus binds the receptor proteins on a cell? \_\_\_\_\_

30. Viruses are general or highly specific to the cell they can infect? \_\_\_\_\_

31. What is the main way that viruses replicate? \_\_\_\_\_

32. What two types of nucleic acids can viruses have? \_\_\_\_\_ or \_\_\_\_\_

34-38. Draw and title the three main shapes of viruses


39. What type of virus invades bacteria? \_\_\_\_\_

40. What is the membrane called that surrounds a capsid? \_\_\_\_\_

Bacterial Disease	Describe Illness	Disease transmitted
1.		
2.		
3.		
Viral Disease	Describe Illness	Disease transmitted
1.		
2.		
3.		