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**Topic:** Bacteria, Virus, Multicellular Organisms Worksheet

**Summary:** Students answer introductory questions about bacteria and viruses.

**Goals & Objectives:** Students will be able to determine the difference between bacteria, viruses, and animal/plant cells. Students will be able to remember important facts about viruses and bacteria.

**NGSS Standards:** *MS-LS1-2.* Develop and use a model to describe the function of a cell as a whole and ways parts of cells contribute to the function.

**Time Length:** 30 minutes

**Materials:**

Class notes or textbook or online textbook

- <https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/2.2/primary/lesson/prokaryotic-and-eukaryotic-cells-bio/>
- <https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/7.3/primary/lesson/prokaryote-structure-bio/>
- <https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/7.9/primary/lesson/virus-characteristics-bio/>

**Procedures:**

1. Tell the students which section they are to use in the textbook. Students are then going to read the section and answer the questions on the worksheet.

**Accommodations:** Students with an IEP can take the handout home if they need extra time or only answer questions 1-16.

**Editable DOCX File and Answer Key:**

Available at [www.ngsslifescience.com](http://www.ngsslifescience.com)

## Bacteria, Viruses, & Multicellular Organisms WS

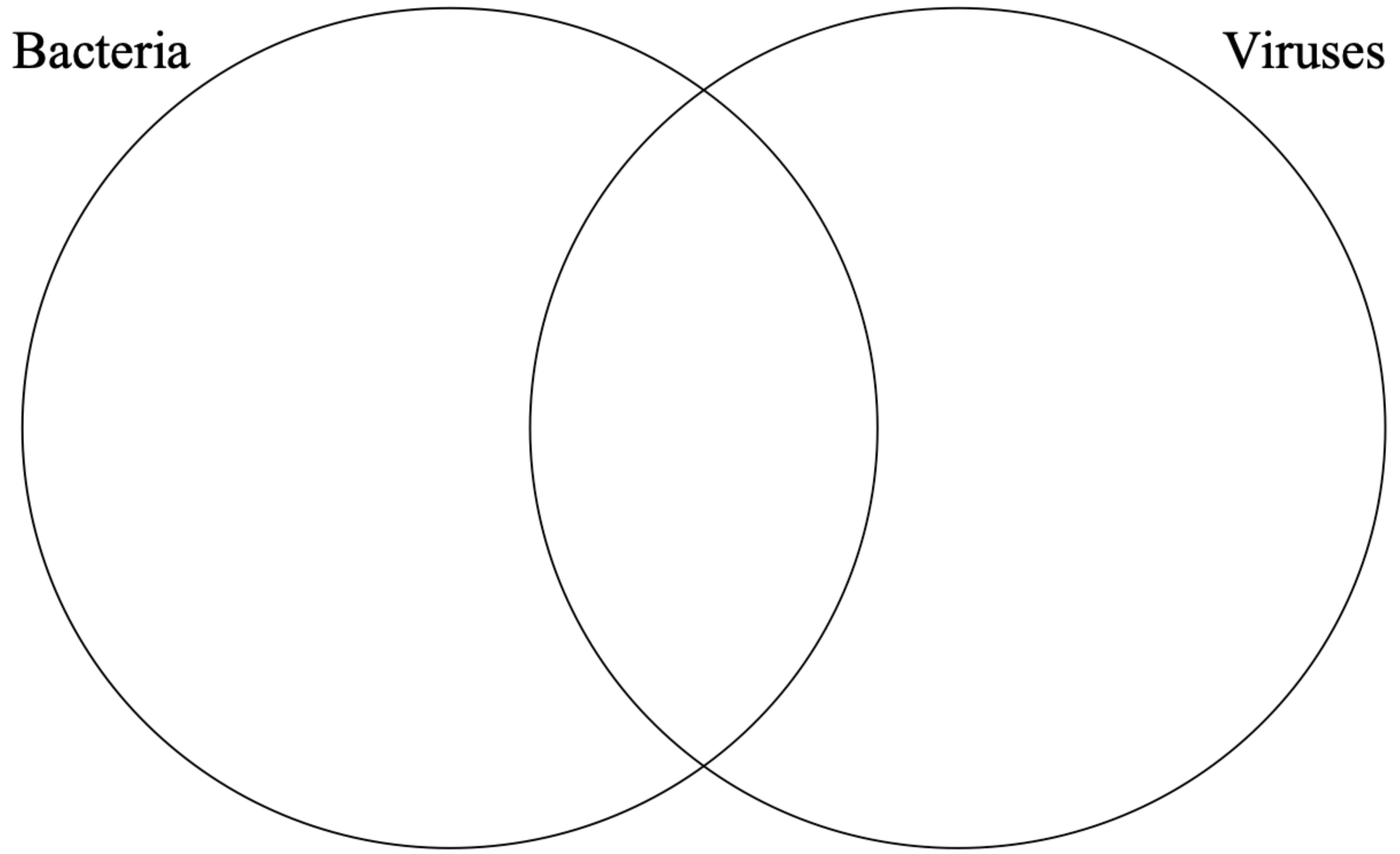
1. What is the official name of the smallest and simplest cells? \_\_\_\_\_
2. What is the modern version of these cells called? \_\_\_\_\_
3. Bacteria are single-cell or multi-cellular organisms? \_\_\_\_\_

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 its own?			
Can reproduce or replicate?			
Has DNA or RNA?			
Has specialized structures or internal compartments?			
May have a cell wall?			
Has membrane-bound organelles?			
Has ribosomes?			
Has a cytoplasm?			
Has chloroplasts?			
Has mitochondria?			

17. How do bacteria reproduce? \_\_\_\_\_
18. What do the chromosomes look like in bacteria? \_\_\_\_\_
19. Viruses are *general* or *highly specific* to the cell that they can infect? \_\_\_\_\_
20. What two types of nucleic acids can viruses have? \_\_\_\_\_ or \_\_\_\_\_

21. Compare and contrast bacteria and viruses by filling in the Venn diagram below.  
*Use three items for each section (total of 9)*



22. Compare and contrast bacteria and multicellular by filling in the Venn diagram below.  
*Use two items for each section (total of 6)*

