

Explain how the Cell Theory helps scientists to confidently answer the question, "Are viruses alive?"

Complete the box-and-t-chart below to compare and contrast viruses with living things.

- Include at least 3 similarities and
- at least 6 differences.

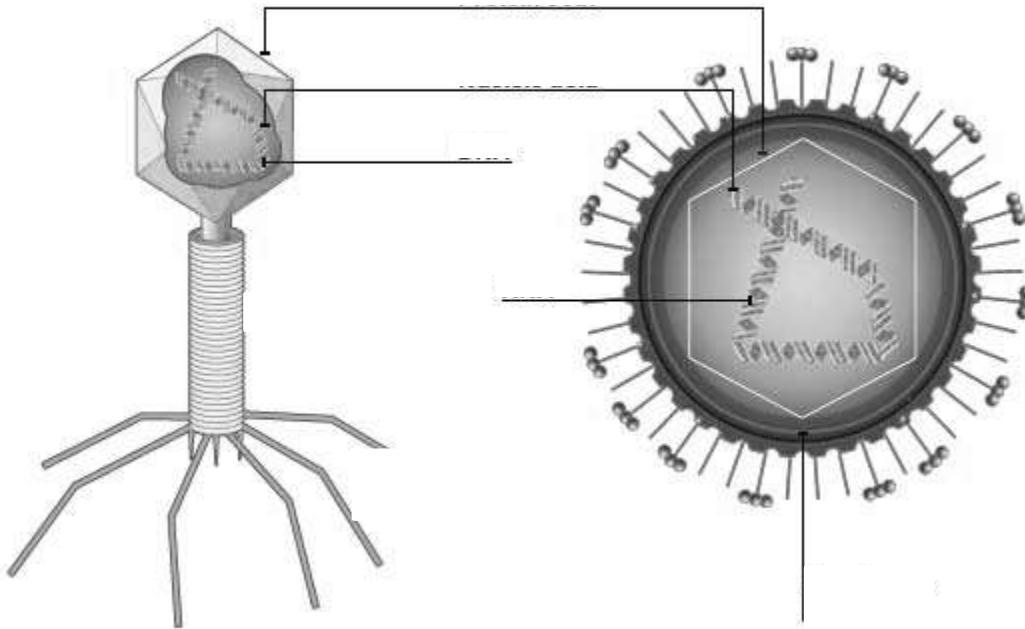
| |
|---------------------------------------|
| Both... 1. 2. 3. |
|---------------------------------------|

| Viruses | Living Things (including Bacteria) |
|---------|------------------------------------|
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |
| 4. | 4. |
| 5. | 5. |
| 6. | 6. |

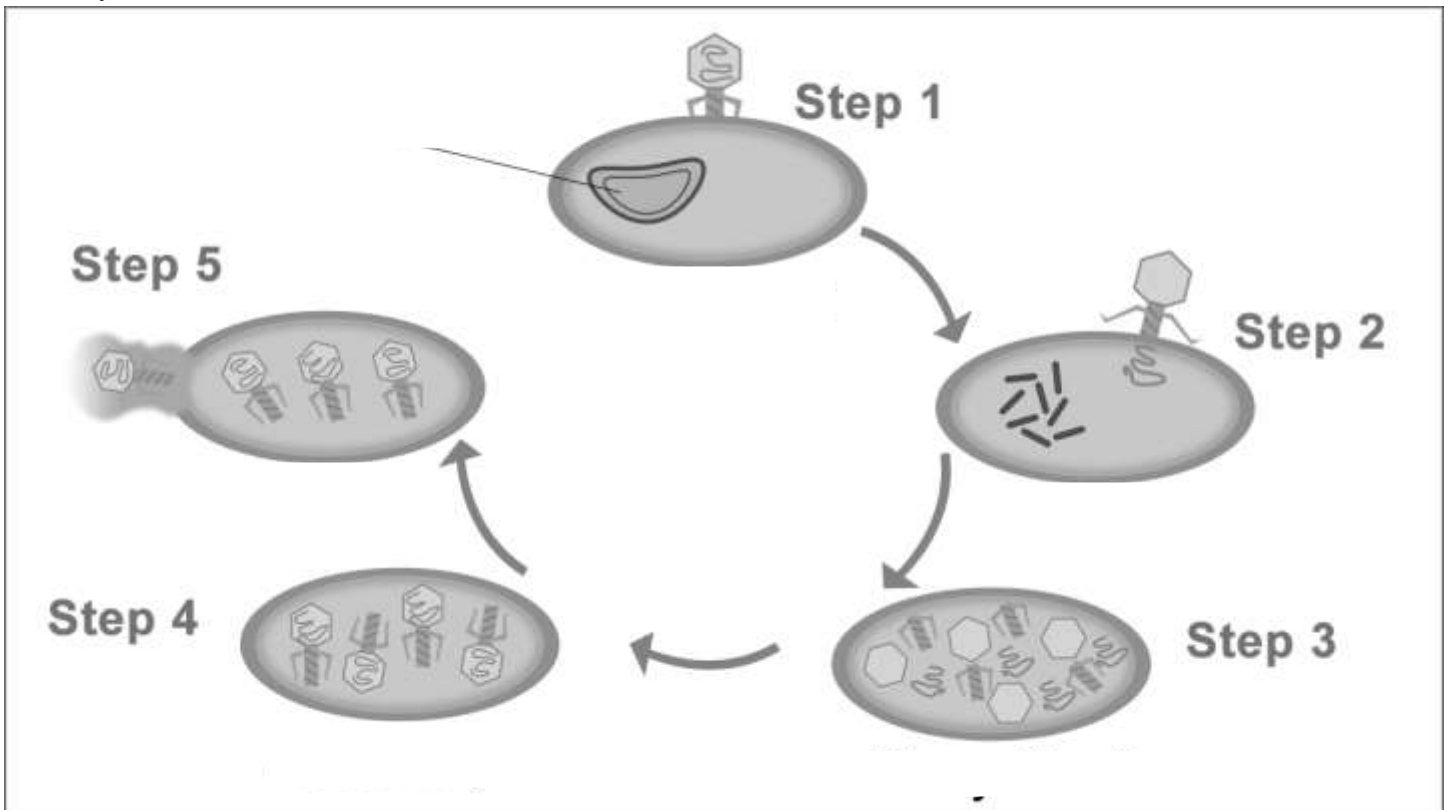
Why were viruses discovered so much later than bacteria? (Hint: Viruses are observed using an electron microscope, which can magnify images up to 10,000,000 times!)

What most likely appeared on earth first – viruses or cells? Explain your prediction. (Hint: Viruses require a host cell to reproduce.)

Structure of a Virus



“Life Cycle” of a Virus



Why is it important to understand the structure and functioning of viruses?