

Student Exploration: Virus Lytic Cycle

Vocabulary: bacteriophage, capsid, host cell, lyse, lytic cycle, virus

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. A computer virus is a program that can copy itself and infect a computer without the permission of the owner. How do you think a computer virus compares to a real virus?

A computer virus enters a computer, a non-living object, whereas a real virus enters a living organism / being. Real life viruses kill the host cell/replicate to kill more and take over the body, while a computer virus

2. You have been most likely infected with a virus, such as the cold virus or flu virus. How did the virus affect you?

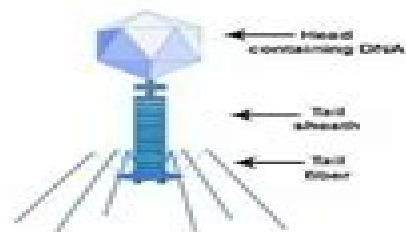
You will see physical symptoms from being infected with a virus, like a cough, stuffy nose, sore throat, headaches, stomach pain, nausea, etc.

3.

Gizmo Warm-up

A **virus** is a microscopic particle that can infect a cell. Viruses are primarily composed of a protein coat, called a **capsid**, and nucleic acid. In the *Virus Lytic Cycle Gizmo™*, you will learn how a virus infects a cell and uses the cell to produce more viruses.

1. Viruses are extremely small. A typical virus is about 100 times smaller than a single cell, such as a bacterium. Label the virus and a bacterial cell in the image at right.



2. **Bacteriophages** are viruses that infect bacteria. Based on the diagram at left, label the head, tail, tail fibers, and the strand of nucleic acid in the image at right.



Activity A:

Lytic cycle

Get the Gizmo ready:

- If necessary, click **Reset** (↺).



Introduction: Unlike living organisms, viruses cannot reproduce on their own. Instead, viruses infect **host cells**, taking over the cell's machinery to produce more viruses. This process is called the **lytic cycle**.

Question: How does a viral infection spread?

Virus Lytic Cycle Explore Learning Answer Key

Xiang Xie



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