

# 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?

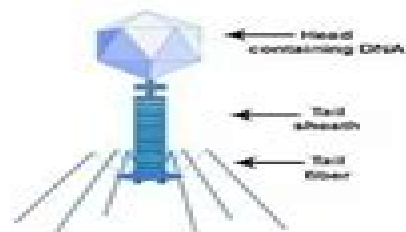
You will see physical symptoms from being infected with a virus, like a cough, stuffy nose, sore throat, headaches, stomach pain, nausea, etc.

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

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## **Virus Lytic Cycle Explore Learning Answer Key:**

## The Enigmatic Realm of **Virus Lytic Cycle Explore Learning Answer Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Virus Lytic Cycle Explore Learning Answer Key** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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