



Name: _____

Date: _____

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 infects a computer, and a real virus infects an organism. During an infection, both types of viruses make copies of themselves so that more infections can occur. A computer viruses disrupts the functions of a computer, while a real viruses destroys its host cells.

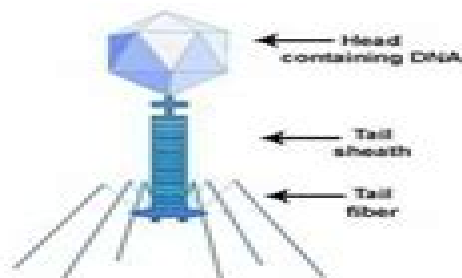
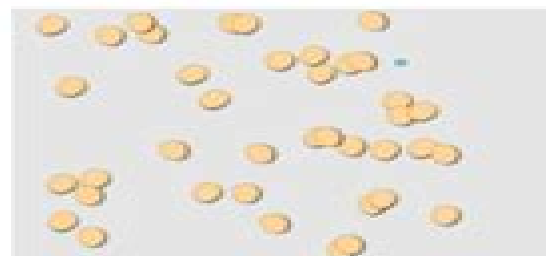
2. Have you ever been infected with a virus, such as the cold virus or flu virus? **yes**

3. If so, how did the virus affect you? **The viruses affected me by giving me fevers and congestions.**

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.



Bacteriophages are viruses that infect bacteria.



Virus Lytic Cycle Gizmo Answers

Hiroomi Tada

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Virus Lytic Cycle Gizmo Answers:

Regulation of the JC Virus Lytic Cycle Hiroomi Tada, 1992

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