

Campbell Biology (12th Edition) - Chapter 19: Viruses

These activities are designed for active learning in an introductory college or AP Biology setting. They encourage students to visualize the abstract processes of viral replication and engage in critical thinking about the nature of viruses.

Activity 1: Lytic vs. Lysogenic Cycle Role-Playing

This kinesthetic activity requires students to physically model the two primary reproductive cycles of bacteriophages, helping them distinguish between the two.

Key Concepts Addressed: Phage structure, host specificity, genome injection, prophage, transcription, lysis.

Instructions (30-45 minutes)

- 1. Assign Roles:** Divide the class into small groups (4-6 students). Each group needs the following roles:
 - **The Phage DNA (1 student):** Must move between the host's nucleus and the host cytoplasm.
 - **The Phage Capsomeres/Coat Proteins (2 students):** Responsible for assembling the final virion.
 - **The Host Cell (1 student):** The central area where all activity happens.
 - **RNA Polymerase (1 student):** The enzyme that transcribes genes.
 - **The Lysis Enzyme (1 student):** The student who dramatically "ruptures" the host cell.
- 2. Lytic Cycle Simulation:** The group must act out the cycle, verbally describing each step (Attachment, Entry, Synthesis, Assembly, Release). They should clearly demonstrate the phage DNA hijacking the host machinery (RNA polymerase) to make new viral components, culminating in the Lysis Enzyme "breaking" the host.
- 3. Lysogenic Cycle Simulation:** The group acts out the first three steps (Attachment, Entry, Integration).
 - The Phage DNA must physically move to the "host chromosome" (a designated floor area).

Ap Biology Chapter 19 Viruses Study Answers

Camilla Rothe



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