

## AP Biology Study Guide Key Chapter 18

Interactive questions:

### 18.1: Flow chart

1. Phage attaches to host cell and injects DNA
2. Phage DNA forms circle. Certain factors determine which cycle is entered.
3. New phage DNA and proteins are synthesized and self-assemble into phages.
4. Bacterium lyses, releasing phages.
5. Phage DNA integrates into bacterial chromosome.
6. Bacterium reproduces, passing prophage to daughter cells.
7. Colony of infected bacteria forms.
8. Occasionally, prophage exits bacterial chromosome and begins lytic cycle.
  - a. Phage DNA
  - b. Bacterial chromosome
  - c. New phages
  - d. Prophage
  - e. Replicated bacterial chromosome with prophage

**18.2: Summarize the flow of genetic information during replication of a retrovirus. Indicate the enzymes that catalyze this flow.**

RNA, DNA, RNA; viral reverse transcriptase, host RNA polymerase

### 18.3: Flow Chart

- a. DNA
- b. RNA
- c. protein capsid
- d. host
- e. bacterium
- f. lytic or lysogenic cycle
- g. animal
- h. viral envelope
- i. reverse transcriptase
- j. plant
- k. viroids
- l. plasmids
- m. transposons

**18.4: What type of phage and reproductive cycle would cause specialized transduction?**

A temperate phage that leaves the lysogenic cycle and enters the lytic cycle may carry bacterial genes that were adjacent to the insertion site of the prophage.

### 18.5: Flow Chart

- a. circular chromosome
- b. F plasmid, R plasmid
- c. Mutation
- d. Transformation
- e. Naked DNA
- f. Transduction
- g. Phage

# Chapter 24 Ap Biology Study Guide Answers

**Peipei Pang**



**Chapter 24 Ap Biology Study Guide Answers:**

## **Chapter 24 Ap Biology Study Guide Answers** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Chapter 24 Ap Biology Study Guide Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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