

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

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The Princeton Review



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