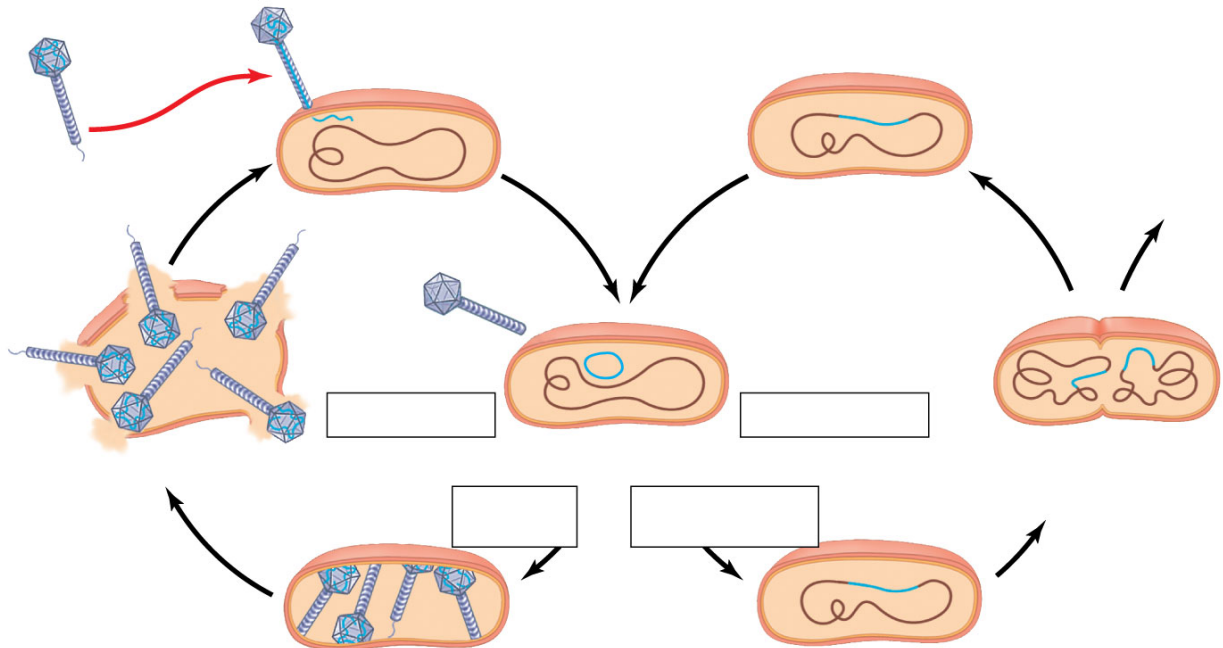


## SI Session 18

1. Use this diagram to describe the steps of the lytic and lysogenic cycles



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2. The reverse transcriptase carried by retroviruses

- uses viral RNA as a template for making complementary RNA strands
- protects viral DNA from degradation by restriction enzymes
- destroys the host cell DNA
- translates RNA into proteins
- uses viral RNA as a template for DNA synthesis

3. An RNA viral genome may be replicated by

- DNA polymerase from the host
- RNA polymerase coded by viral genes and carried in the viral capsid
- reverse transcriptase that synthesizes RNA
- RNA polymerase from the host
- restriction enzymes from the host

4. Explain the process by which a retrovirus replicates in a host cell

5. What are fossils and what role do they play in understanding evolution?

Definitions:

a. Adaptation-

b. Natural Selection-

c. Artificial Selection-

d. Vestigial Structures-

e. Homologous Structures-

6. What conclusions did Darwin draw about natural selection?

7. Darwin's claim that all of life descended from a common ancestor may best be supported with evidence from

- a. the fossil record
- b. comparative embryology
- c. taxonomy
- d. molecular biology
- e. comparative anatomy