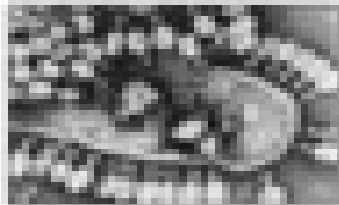


# Viral and Bacterial Genetics

## Part 1: Viral Reproduction



You will be assigned to create a flow chart of one of the multiple cycle types listed below:

- 1 The Lytic Cycle
- 2 The Lysogenic Cycle
- 3 A Special Animal Cell Virus
- 4 A Special Plant Cell Virus
- 5 A Bacteriophage

Please make sure that your diagram is a complete and thorough representation of your assigned viral life cycle. A list of some helpful vocabulary terms is provided below to help you start thinking about your topic.

When you have finished this assignment, attach your diagram to the end of this booklet.

**ACE (animal coronavirus system):**

cell envelope

cytoplasm

ribosomes (animal coronavirus system)

cell wall

lysogenic cycle

lytic cycle

inclusion

flagellum

prophage

genome

retrovirus

reverse transcriptase

lysogenic phase

reverse

cell envelope

## Part 2: Mechanisms of Bacterial Genetic Recombination

- 1 Explain how transformation occurs genetically in a bacterial population.

