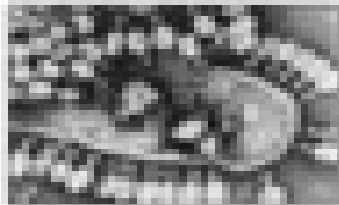


Viral and Bacterial Genetics

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 eukaryotic viruses)

cell envelope

cytoplasm

DNA (animal eukaryotic virus)

hemolysis

lysogenic cycle

lytic cycle

matrix

phage

prophage

protein

ribosome

smooth membrane

structural protein

vacuole

cell envelope

Part 2: Mechanisms of Bacterial Genetic Recombination

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

