

DNA STRUCTURE AND REPLICATION

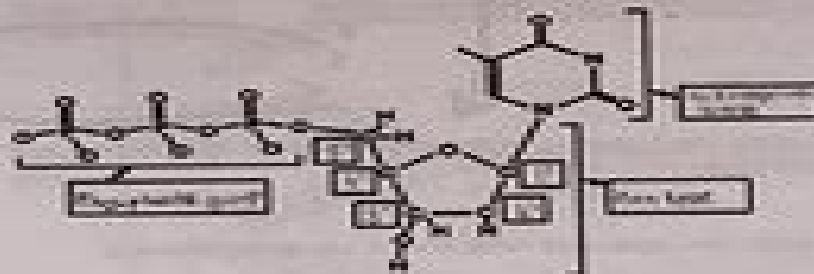
By the end of this activity you should be able to:

1. Explain what (and where) genetic information is.
2. Identify and draw the three parts of a nucleic acid.
3. Explain the basic structures, processes, and steps involved in DNA replication.
4. Identify leading and lagging strands in a replication fork and bubble.
5. Know the enzymes involved in DNA replication, and predict the result of their malfunctioning.

PART 1: DNA STRUCTURE

Nucleotides are the building blocks of nucleic acids (RNA and DNA).

1. On the nucleotide schematic below:
 - A. label the phosphate group, the nitrogenous base, and the pentose (5-carbon sugar).
 - B. Label the carbon atoms in the sugar ring from 1 to 5.



- C. What functional groups on ANY nucleotide can tell you whether it is a component of DNA or RNA?
Hydroxyl group & phosphate group
- D. Which carbon # is this functional group bound to?
2'
- E. What functional group does the 3' on DNA represent?
Hydroxyl group
- F. What functional group does the 5' on DNA represent?
Phosphate group

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