

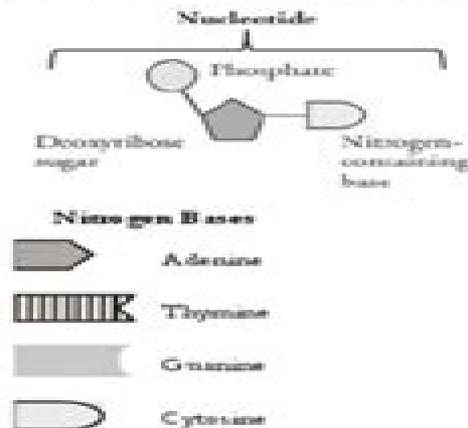
# DNA Structure and Replication

How is genetic information stored and copied?

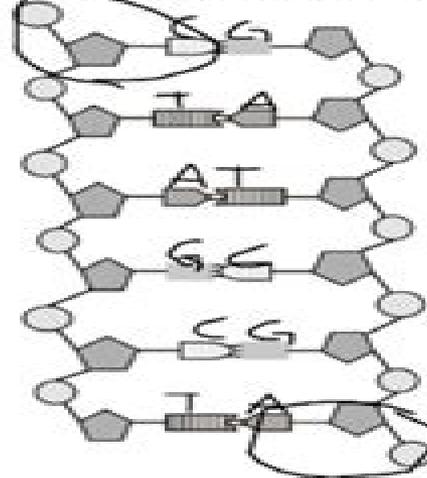
## Why?

Deoxyribonucleic acid or **DNA** is the molecule of heredity. It contains the genetic blueprint for life. For organisms to grow and repair damaged cells, each cell must be capable of accurately copying itself. So how does the structure of DNA allow it to copy itself so accurately?

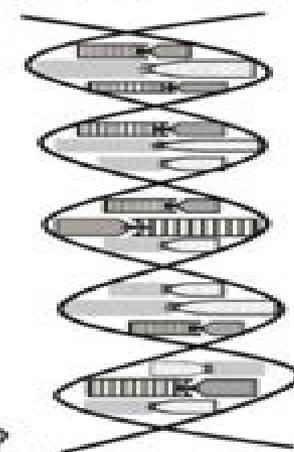
## Model 1 – The Structure of DNA



Ladder Model of DNA



Helix Model of DNA



- Refer to the diagram in Model 1.
  - What are the three parts of a nucleotide?  
phosphate, deoxyribose sugar, nitrogen containing base  
sugar, phosphate, base
  - What kind of sugar is found in a nucleotide?  
ribose (deoxyribose) sugar
  - Which nucleotide component contains nitrogen?  
the bases
  - Name the four nitrogen bases shown in Model 1.  
adenine, thymine, guanine, cytosine
- DNA is often drawn in a "ladder model." Locate this drawing in Model 1.
  - Circle a single nucleotide on each side of the ladder model of DNA.
  - What part(s) of the nucleotides make up the rungs of the "ladder"?  
the bases

# Dna Structure And Replication Pogil Answers

**S Marginson**



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