

# 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



1. Refer to the diagram in Model 1.
  - a. What are the three parts of a nucleotide?  
**Sugar, phosphate, nitrogenous base**
  - b. What kind of sugar is found in a nucleotide?  
**Ribose**
  - c. Which nucleotide component contains nitrogen?  
**Nitrogenous base**
  - d. Name the four nitrogen bases shown in Model 1.  
**Adenine guanine cytosine thymine**
2. DNA is often drawn in a "ladder model." Locate this drawing in Model 1.

# Pogil Biology Answer Key Dna Structure And Replication

**Chris R. Calladine, Horace Drew, Ben  
Luisi, Andrew Travers**



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