

# 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?

**Deoxyribose sugar, Phosphate, Nitrogen-containing base.**

- a. What kind of sugar is found in a nucleotide?

**Deoxyribose**

- a. Which nucleotide component contains nitrogen?

**bases ( A,T,G,C )**

- a. Name the four nitrogen bases shown in Model 1.

**Adenine, Thymine, Guanine, Cytosine**

2. DNA is often drawn in a "ladder model." Locate this drawing in Model 1.

- a. Circle a single nucleotide on each side of the ladder model of DNA.

# Model 2 Dna Replication Answers Pogil

**F Rizvi**



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*DNA Replication* Judith L. Campbell, 1995-10-11 The critically acclaimed laboratory standard for forty years *Methods in Enzymology* is one of the most highly respected publications in the field of biochemistry Since 1955 each volume has been eagerly awaited frequently consulted and praised by researchers and reviewers alike More than 250 volumes have been published all of them still in print and much of the material is relevant even today truly an essential publication for researchers in all fields of life sciences Key Features Includes descriptions of functional structural kinetic and genetic methods for analyzing major enzymes of DNA replication Describes strategies for studying interactions of these proteins during replication Provides comprehensive descriptions of uses of prokaryotic and eukaryotic crude in vitro replication systems and reconstitution of such systems from purified proteins Includes methods for analyzing DNA replication in vivo

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