

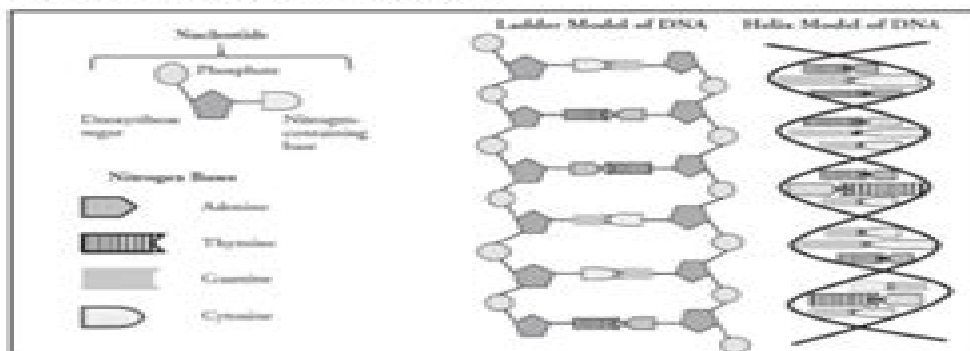
POGIL – DNA Structure and Replication

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.

- What are the three parts of a nucleotide?
- What kind of sugar is found in a nucleotide?
- Which nucleotide component contains nitrogen?
- Name the four nitrogen bases shown in Model 1.

2. 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"?
- What parts of the nucleotides make up the sides (backbone) of the "ladder"?
- Look at the bottom and top of the "ladder" in Model 1. Are the rungs parallel (the ends of the strands match) or antiparallel (the ends of the strands are opposites)? Describe what antiparallel means.
- Label the 5' and 3' end of each strand in the ladder model of DNA in Model 1.

3. The two strands of DNA are held together with hydrogen bonds between the nitrogen bases. These are weak bonds between polar molecules. Which bases are paired together with hydrogen bonds? How many hydrogen bonds connect the bases of each pair? Draw and label a diagram showing each base pairing.

READ: Erwin Chargaff (1906–2002), an Austrian-American biochemist, investigated the ratio of nucleotide bases found in the DNA from a variety of organisms. From his research, as well as research by Rosalind Franklin and Maurice Wilkins, Watson and Crick developed the complementary base-pair rule during their race to discover the structure of DNA. The complementary base-pair rule states that adenine and thymine form pairs across two strands, and guanine and cytosine form pairs across two strands.

4. Fill in the complementary bases on the strand below according to the base-pair rule.

5' - A T C C A G C G G T C A A - 3'

5. The proportions of the bases are consistent within a species; however, they do vary between species. Using the base-pair rules, complete the following table to show the percentage of each type of base in the three different organisms.

| Organism | Percentage of each type of base | | | |
|----------|---------------------------------|---------|----------|---------|
| | Adenine | Guanine | Cytosine | Thymine |
| Human | | 31 | | 19 |
| Cow | 28 | | 22 | |
| Salmon | 21 | | | |

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