

What are they?

Molecules that provide instructions for organisms.

Examples:

ONA

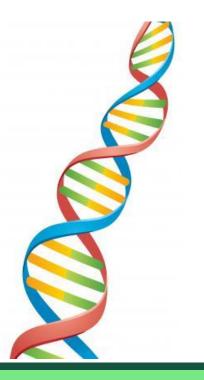


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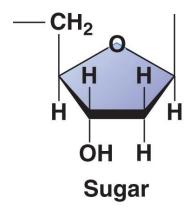
- Two strands
- Double helix (twisted ladder)

Nucleotide

The monomer (building block) of nucleic acids is a **nucleotide**.

Each nucleotide has three parts:

1 – sugar molecule

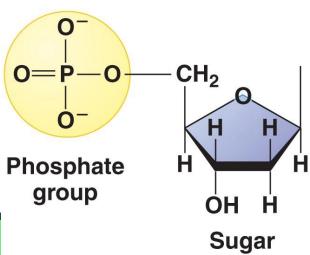


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- 2 phosphate group



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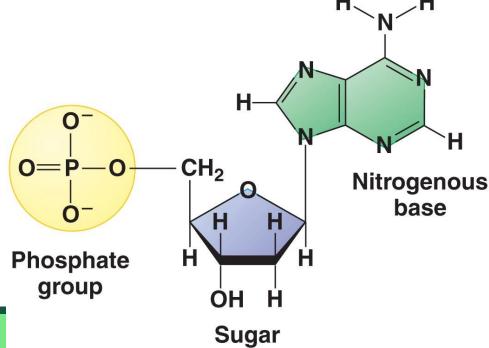
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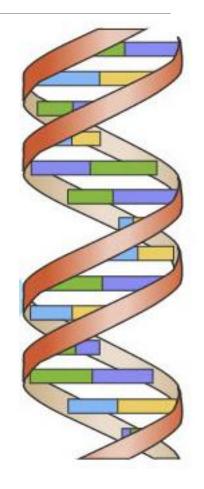
2 – phosphate group

3 – nitrogenous base



Review!

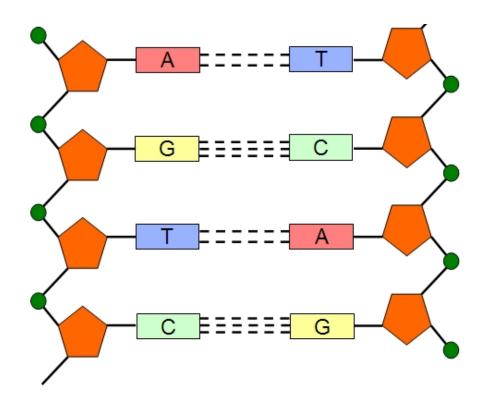
Two strands, double helix



Sugar backbone with phosphate groups

Nitrogenous bases connect the two

strands



Nitrogenous bases

4 types:

- Adenine (A)
- Thymine (T)
- Cytosine (C)
- •Guanine (G)





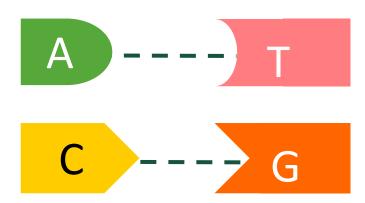




Nitrogenous bases

A pairs with T

C pairs with G



Nitrogenous bases

A pairs with T

C pairs with G

If you know the sequence of one strand, you know the sequence of the complementary strand.