

Structure of DNA

11SCI - Genetics

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Learning Outcomes

- Understand the structure of DNA (double helix, nucleotide, sugar, phosphate, base, and the base pairing rule).
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Starter

Kahoot: <https://create.kahoot.it/details/dna-chromosomes-and-genes/b4becff7-cec8-4f8f-be51-4d3546001f66>

Starter 2

1. List the names of the four bases that make up the backbone of DNA
 2. Which bases pair with each other?
 3. What are the other components of that you found in your diagram? Take a look at sciPAD page 10 for hints.
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Structure of DNA

Base Pairing

Codons

DNA is read by the cell in chunks of 3 pairs. Each group of 3 pairs is called a **codon**. Each codon tells the cell to use a certain *amino acid*.

Amino Acids

Amino acids are the molecules used to build all living things. There are 21 of them and codons tell the cell which ones to join together.

Proteins

We are made up of proteins, which are in turn made of long chains of amino acids.