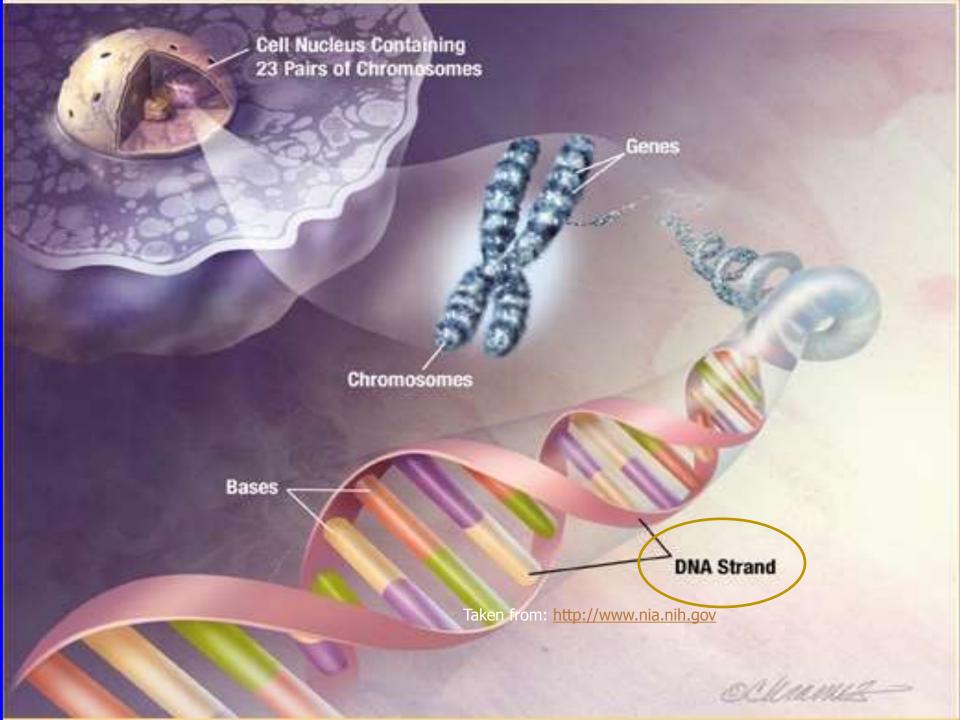
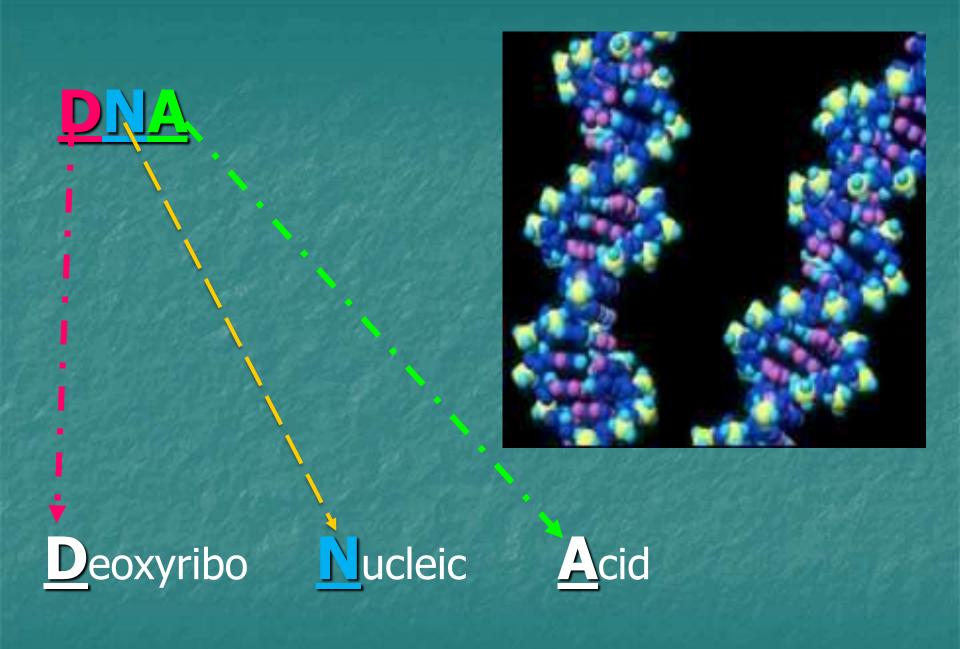
### DNA Structure

Learning Outcome

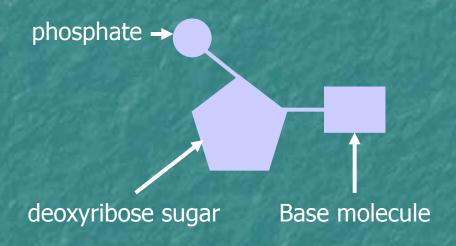
To be able to describe the structure of DNA





#### DNA Structure

 DNA is a large molecule made up of smaller units called nucleotides



Structure of a nucleotide

#### Different nucleotide

There are 4 different base molecules



Each base can be represented by a different shape or colour

## Base pairing





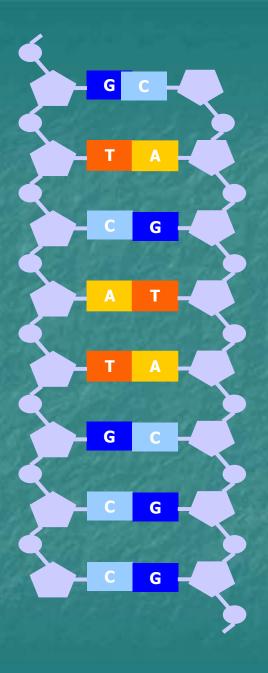
Cytosine pairs with guanine Adenine pairs with thymine

### A single strand of DNA nucleotides

Nucleotides can join together to form a chain.

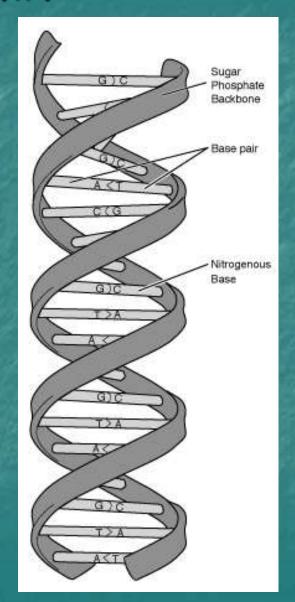
DNA is made of two strands of nucleotides.

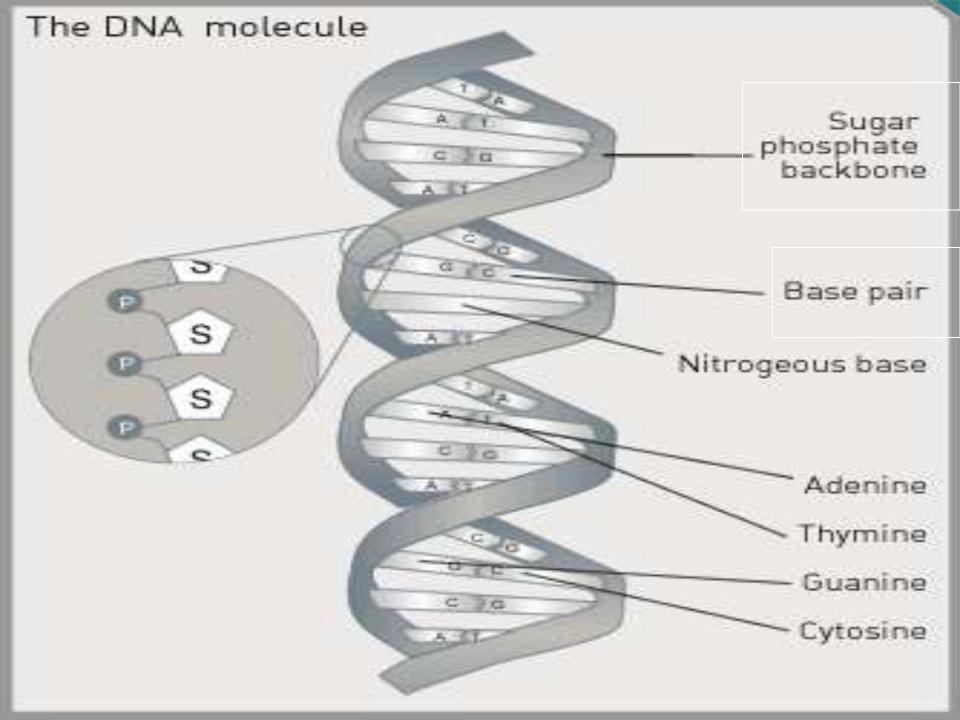
The two strands are held together by weak hydrogen bonds between base pairs.



### The double helix

DNA molecule twists into a double helix





# Quick Questions

- What shape is the DNA molecule?
- 2. What type of bonding holds the two DNA strands together?
- 3. Name the three components of a nucleotide.
- 4. Name the organic base which pairs with cytosine.
- 5. Name the organic base which pairs with thymine.