

## DNA and RNA

### The Components and Structure of DNA

- ☺ DNA – deoxyribonucleic acid
- ☺ Deoxyribose – simple sugar in DNA
- ☺ DNA is made up of nucleotides
- ☺ Nucleotide – made of simple sugar, phosphate and a nitrogen base
- ☺ 4 Nitrogen Bases in DNA
  1. adenine
  2. guanine
  3. cytosine
  4. thymine
  - } purines – double ring
  - } pyrimidines – single ring
- ☺ Nucleotides join together to form long chains
- ☺ Phosphate and deoxyribose form the backbone of the chain (sides of the ladder)
- ☺ Nitrogen bases for the steps of the ladder
- ☺ The amount of adenine equals thymine
- ☺ The amount of guanine equals cytosine

