

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 } purines – double ring
 2. guanine } purines – double ring
 3. cytosine } pyrimidines – single ring
 4. thymine } 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

