Source: [KBBiologyMasterIndex]

## 1 DNA/RNA

## 1.1 | Nucleic Acids

d-Oxy Ribone Nucleic Acid: DNA Ribone Nucleic Acid: RNA

All nucleic acids are comprised of monomer units that's synthesized together into polymers. => Just like | KBhBIO101Carbs|| Or | KBhBIO101AminoAcids||

## 1.2 | 3 basic parts of a Nucleic Acid

Two of the backbone (phosphate and sugar) + w

- Backbone
  - · phosphate group
  - sugar (Ribos => sugar in RNA, di-oxy Ribos => sugar in DNA)
    - In di-oby Ribos: a OH pair is replaced with a hydrogen only in one position. Hence "di-oxy"
- · nitrogenous base
  - · Bases in DNA
    - A, T, G, C
  - · Bases in RNA
    - A, U, G, C

## **SONIRE**

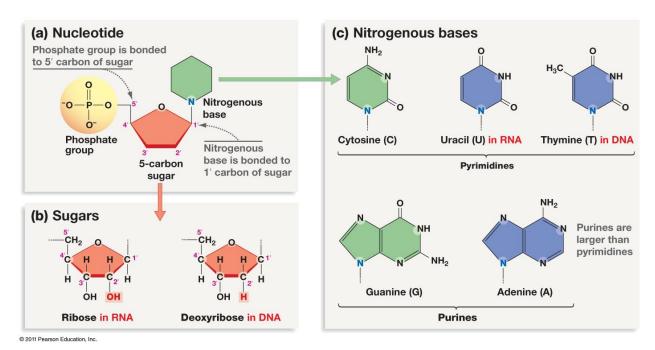


Figure 1: d\_na.jpg

How do we make nucleic acids? Can you guess? Huh? **Dehydration synthesis!** #TODO make that actually a note, at this pont

5' => one end of an RNA/DNA part

3' => another end of a RNA/DNA part

- DNA is supposed to be double stranded
- RNA is supposed to be single stranded

DNA is anti-parallel to each other => 5' to 3' backbone parallel to 3' to 5' backbone

Temp copies of genome is RNA, permanent record in DNA

## The Central Dogma The process of the central dogma is a rough path by which DNA is converted into Proteins. This helps us understand how proteins are made in a cell, and also how viruses could hijack this process to make themselves.

See [KBhBlO101CentralDogma]]