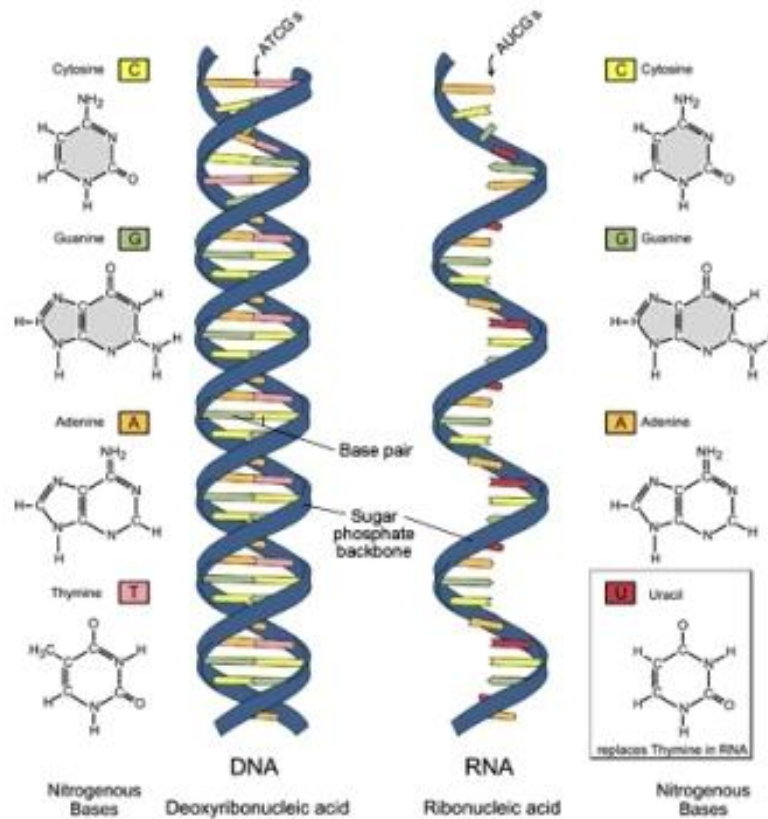
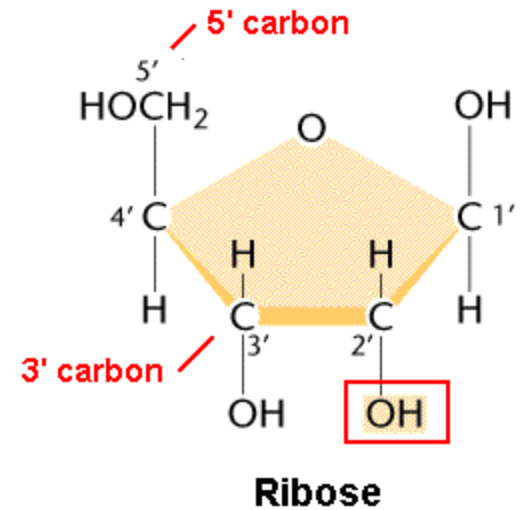
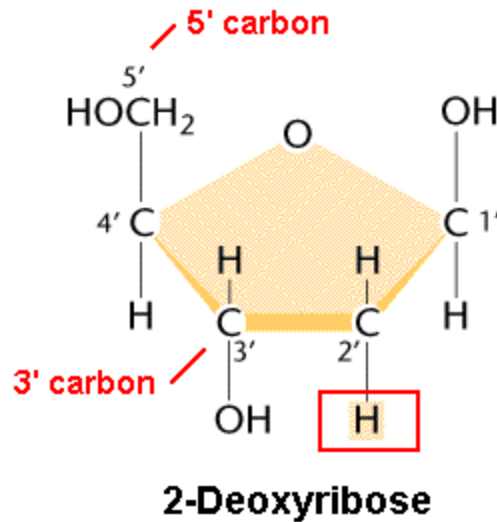


RNA VS DNA



- RNA has **ribose** sugar, not deoxyribose sugar

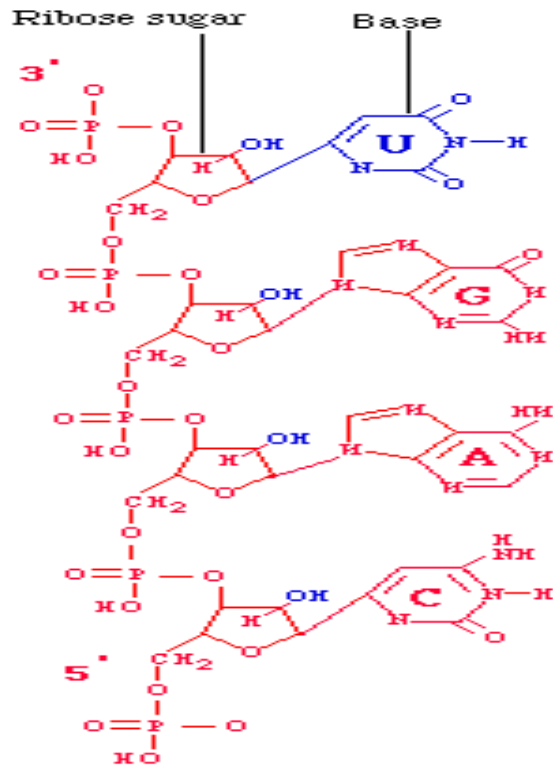


RNA is **single stranded**, DNA is double stranded

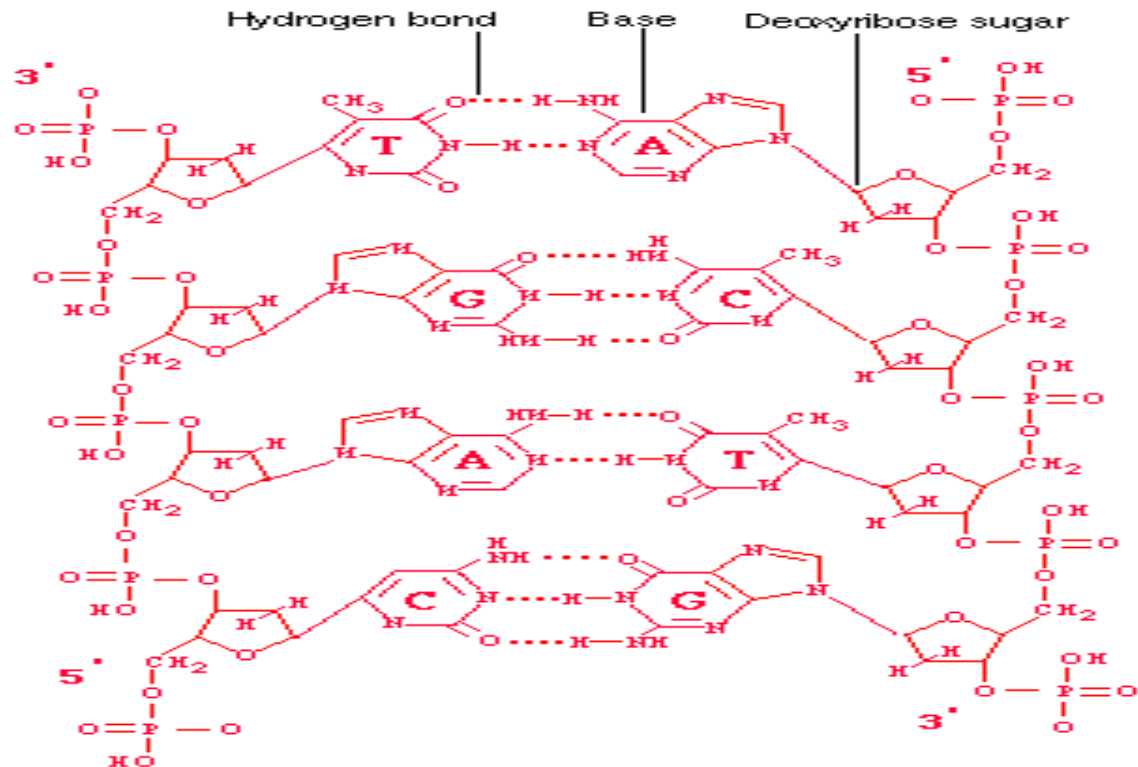
Although, RNA can base pair with itself

RNA and DNA

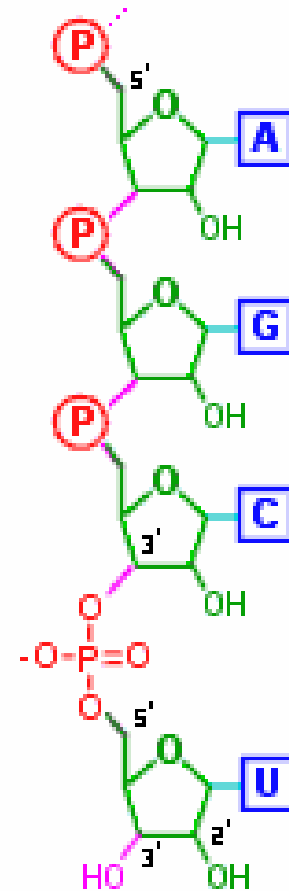
RNA (single stranded)



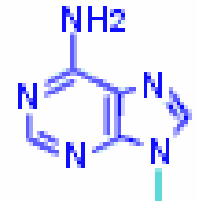
DNA (double stranded)



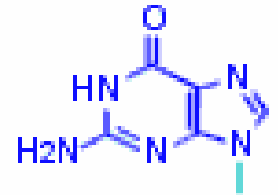
- RNA bases are **A**, **G**, **C** and **U** (uracil), no **T**
 - Uracil is a **pyrimidine** and forms two hydrogen bonds with **adenine**



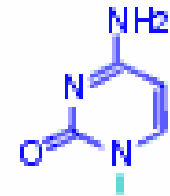
Adenine



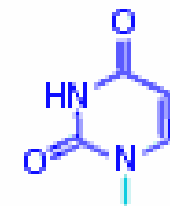
Guanine



Cytosine



Uracil



(c) Chemis

Location in the (Eukaryotic) Cell:

DNA

In the nucleus

RNA

mRNA: Nucleus → Cytoplasm

rRNA: Made in nucleolus. Make up ribosomes on ER or in cytoplasm.

tRNA: In Cytoplasm

function:

DNA

Store Genetic information used to make proteins

RNA:

used in protein synthesis

mRNA: Copy the message from a gene of DNA and send it to the ribosome.

rRNA: Make up ribosomes

tRNA: Transfers amino-acids to the ribosome to make a protein