

1. In the nucleus
2. $tRNA \rightarrow mRNA \rightarrow mDNA$
↑ transfer ↑ messenger ↑ mitochondrial
3. The sequence of codons (the amino acid order for the synthesis of the proteins) in mRNA which specifies the genetic code.
4. A change in the DNA base sequence that alters the formation of a protein in a cell.

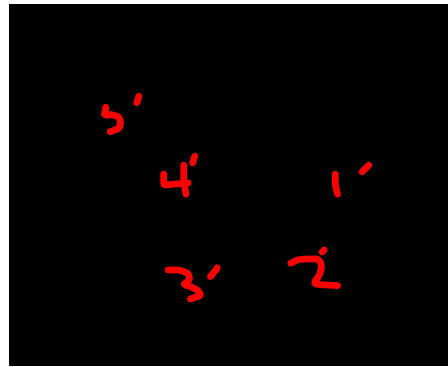
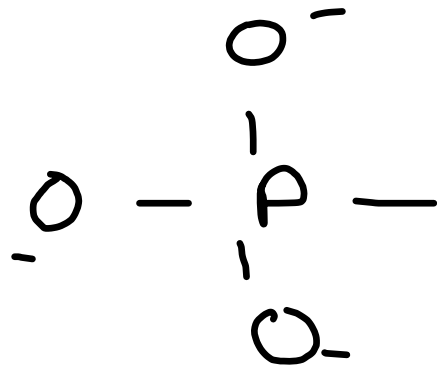
Quiz

Tues

amino acids

① #8

② #13



Deoxyribose - missing
OH group found in RNA.

DNA

adenine (A) guanine (G)

cytosine (C) thymine (T)

RNA

adenine (A) guanine (G)

cytosine (C) uracil (U)

17.1B

a.) pyrimidine cytosine

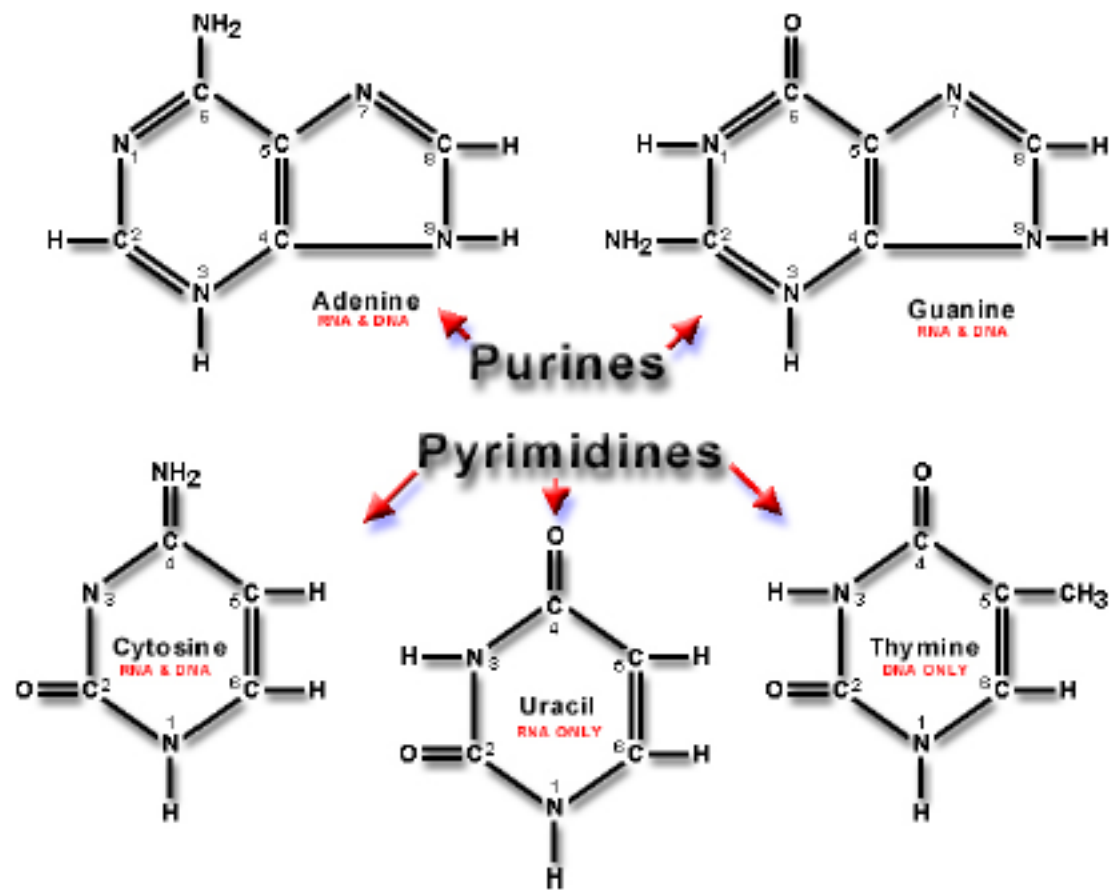
b.) purine adenine

c.) purine guanine

d.) pyrimidine thymine

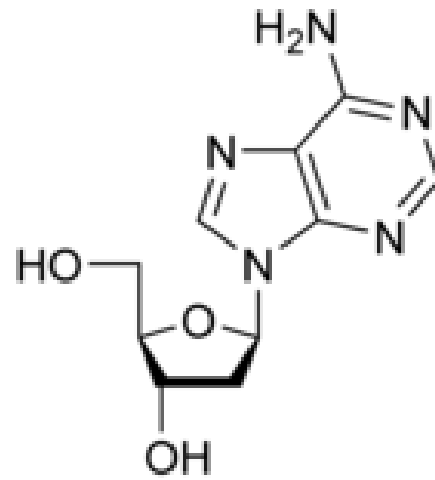
17.1c

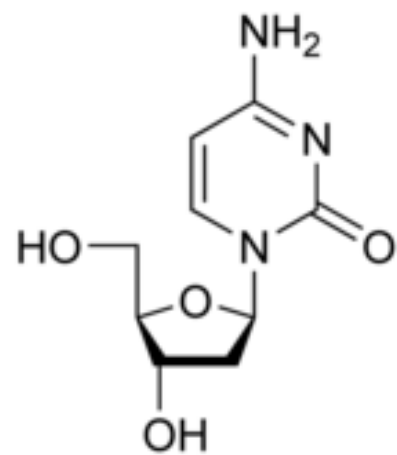
1. RNA ^{AMP} adenosine 5'-mono
2. DNA ^{dCMP}
3. DNA ^{dTMP} deoxythymidine-5'...
4. DNA ^{dGMP}
5. RNA ^{GMP} guanosine 5'-mono ...
6. RNA ^{CMP} cytidine 5'-mono ...
7. RNA ^{UMP}
8. DNA ^{dAMP} deoxyadenosine 5'.

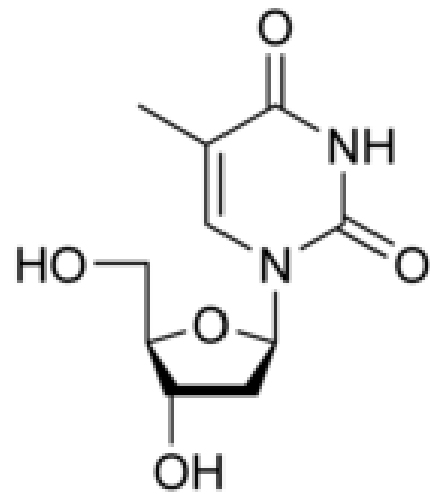


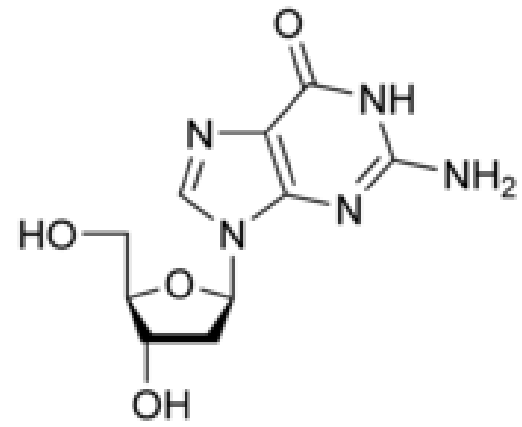
Title: Apr 9 - 10:16 AM (2 of 33)

Title: Apr 21-8:26 AM (7 of 24)





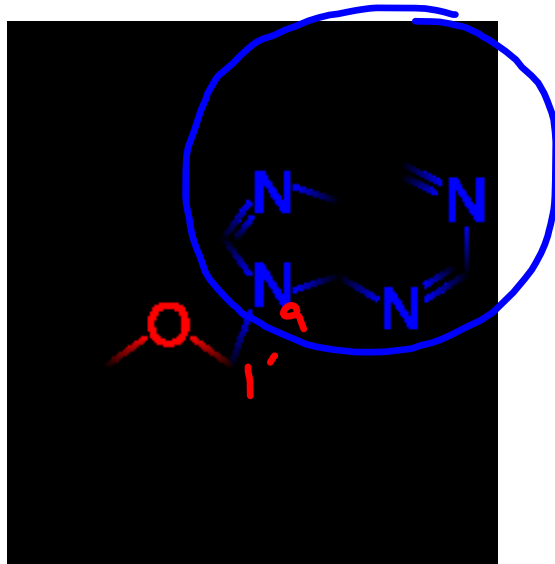






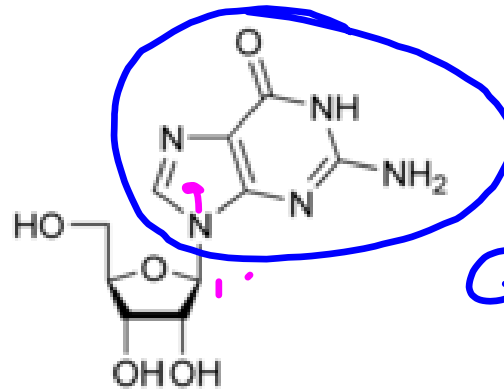
ribose

RNA Adenosin



RNA

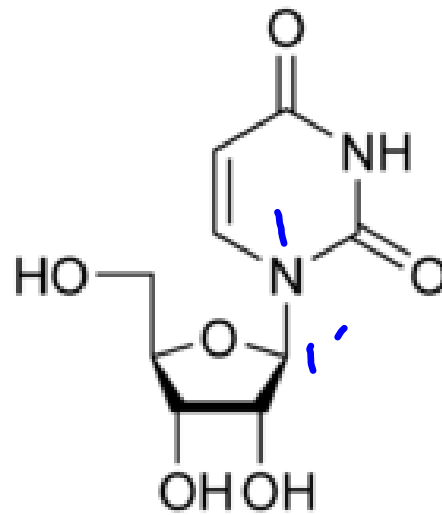
Guanosine

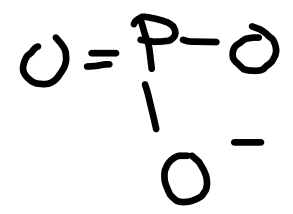
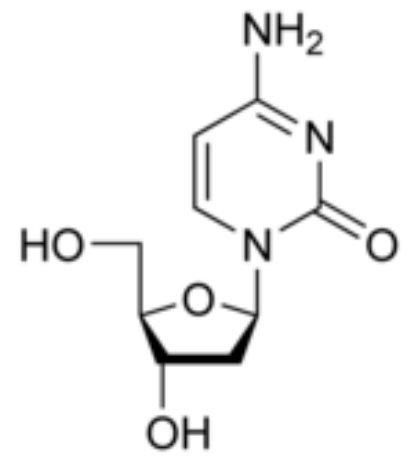
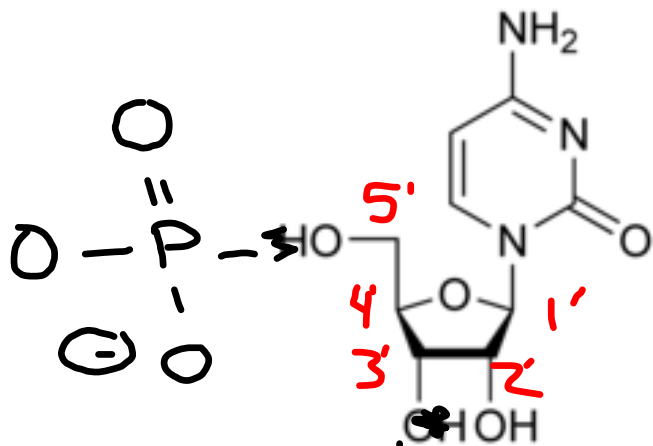


Guanine

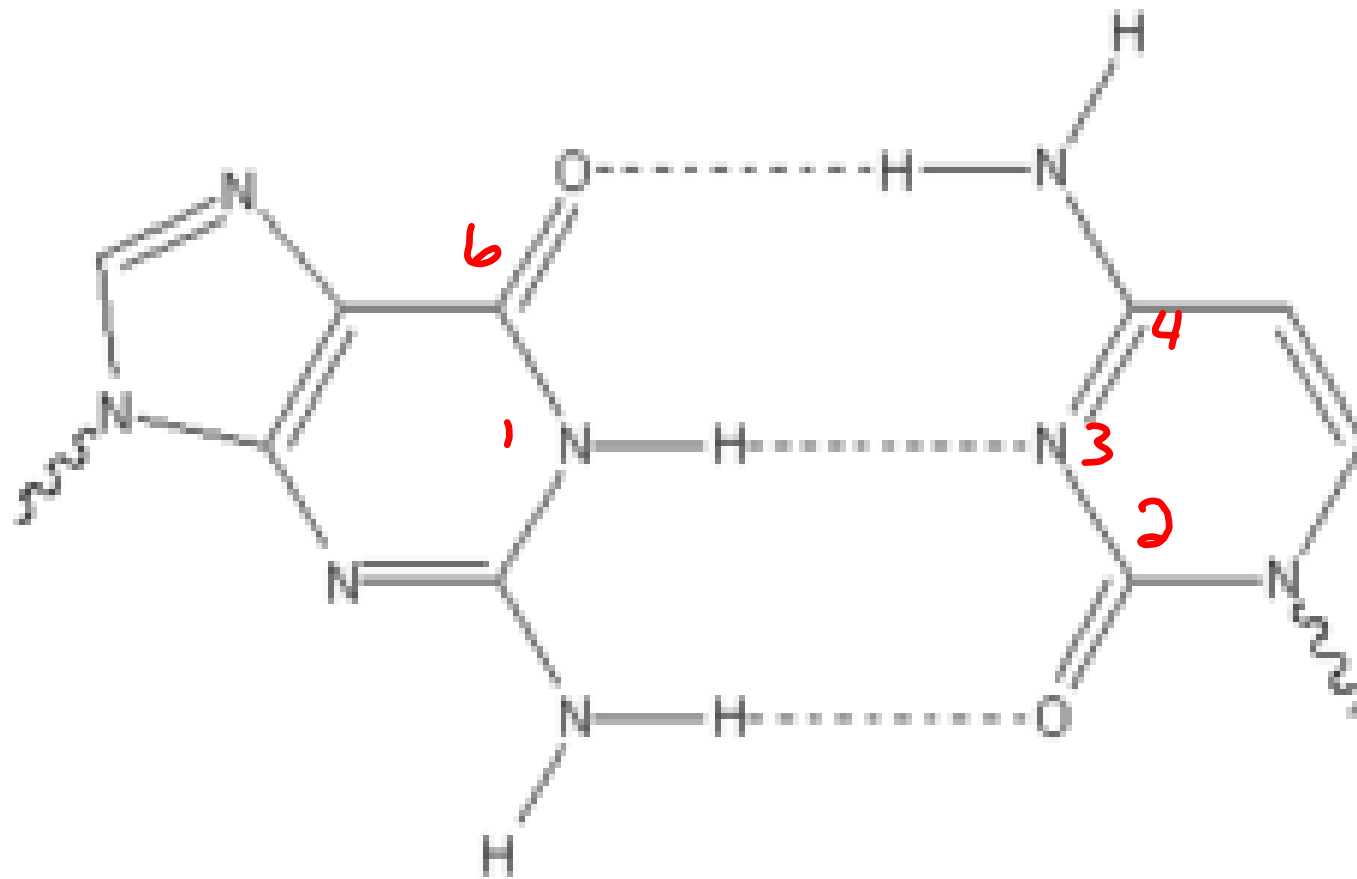
RNA

Uridine





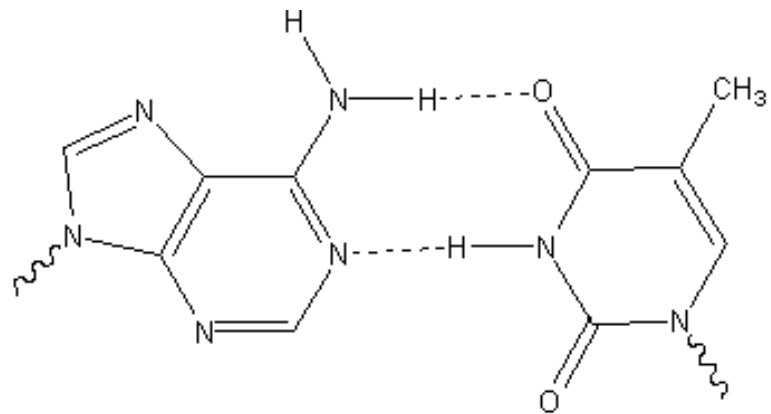
helix forms
3' - 5'
5' - 3'



Guanine

Cytosine

base pair



Adenine

Thymine

base pair

A T G C T T G G C
T A C G A A C C G

Three types of RNA

ribosomal RNA rRNA
make up the proteins

messenger RNA mRNA
mRNA carries information from
DNA to rRNA

transfer RNA tRNA
places correct amino acids
in the protein

- transcription- DNA to mRNA
- U is paired with A in mRNA
- The production of mRNA is triggered when certain proteins are needed in the cell.

C A T T C G G T A
G U A A G C C A U

Codons - the genetic code that specifies the order for the amino acids in proteins.

- C C C - T C A - G G G - C G C -
G G G A G U C C C G C G
Gly Ser Pro Ala