Welcome to Biology

Wednesday 9/29/21

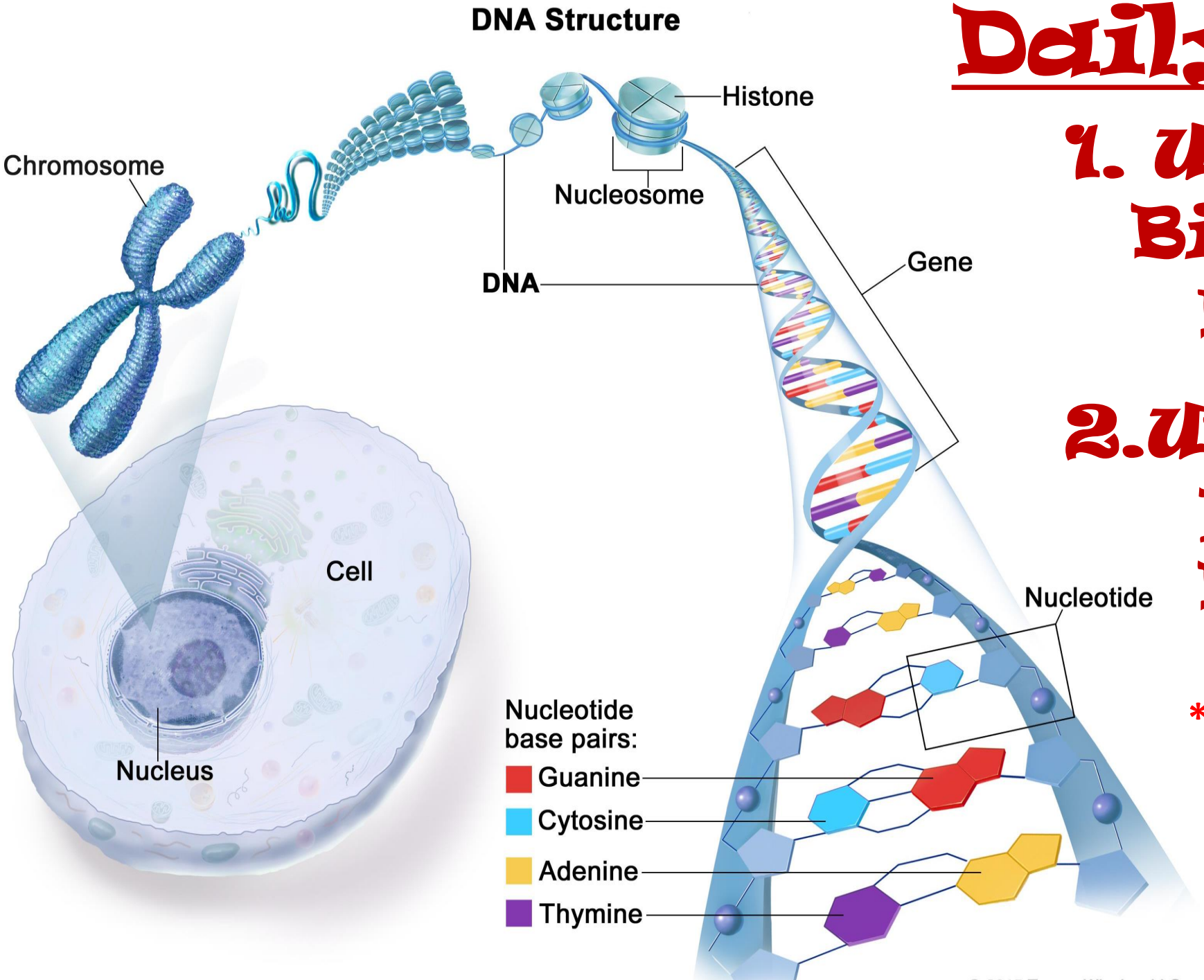
Phones away and things out of ears please -
Masks covering face holes
Thank you!!

Daily Agenda

1. Unit 3: Biomolecules Nucleic Acids

2.Unit 3 Fill-in-the Blanks Notes

**Finish Activity Sheet from Tuesday??



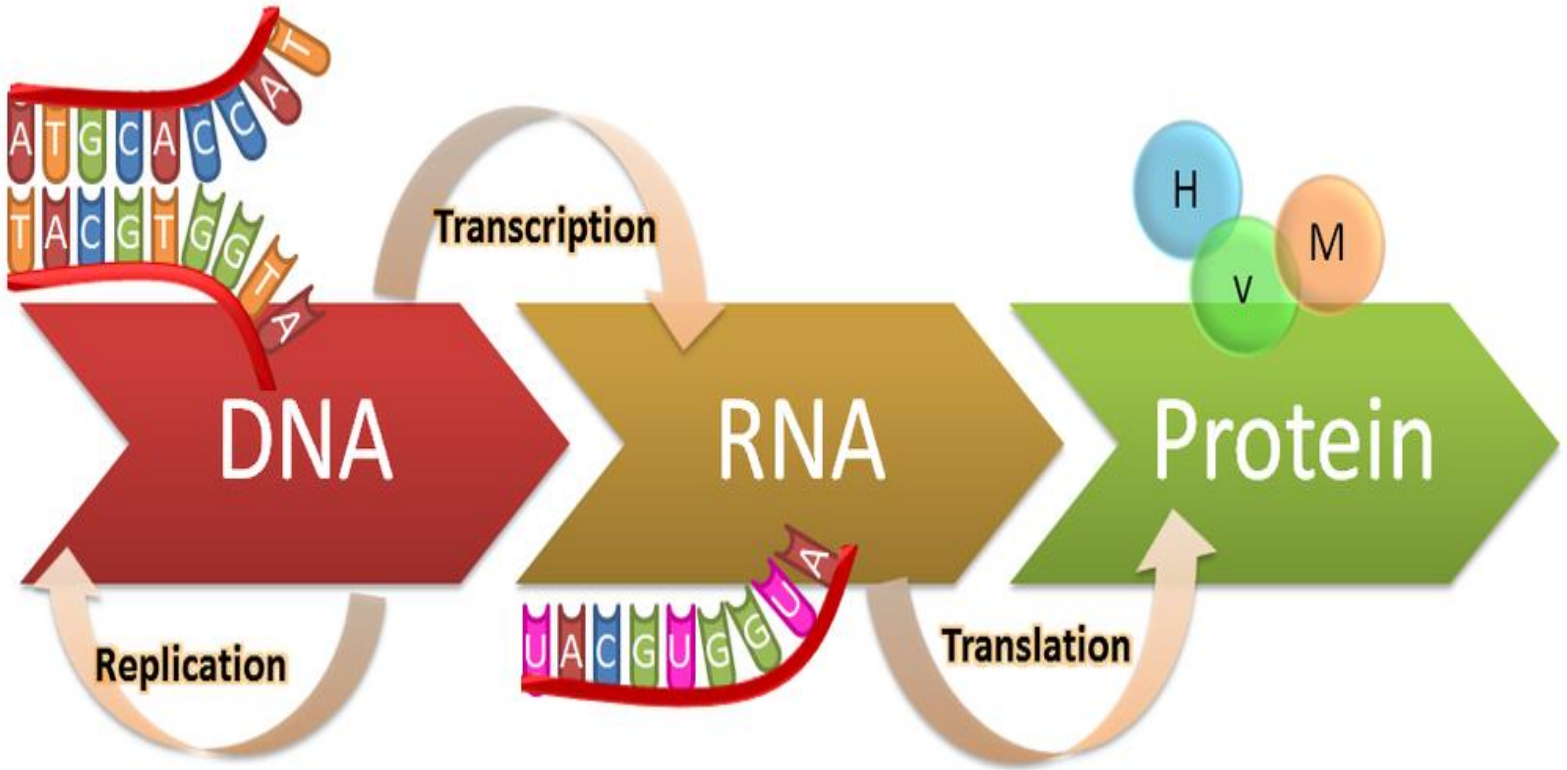
Nucleic acids (9/29/21) Made of C, H, O, Nitrogen and Phosphorus

Examples and Functions

DNA – holds information to make proteins

- copied and passed down from generation to generation

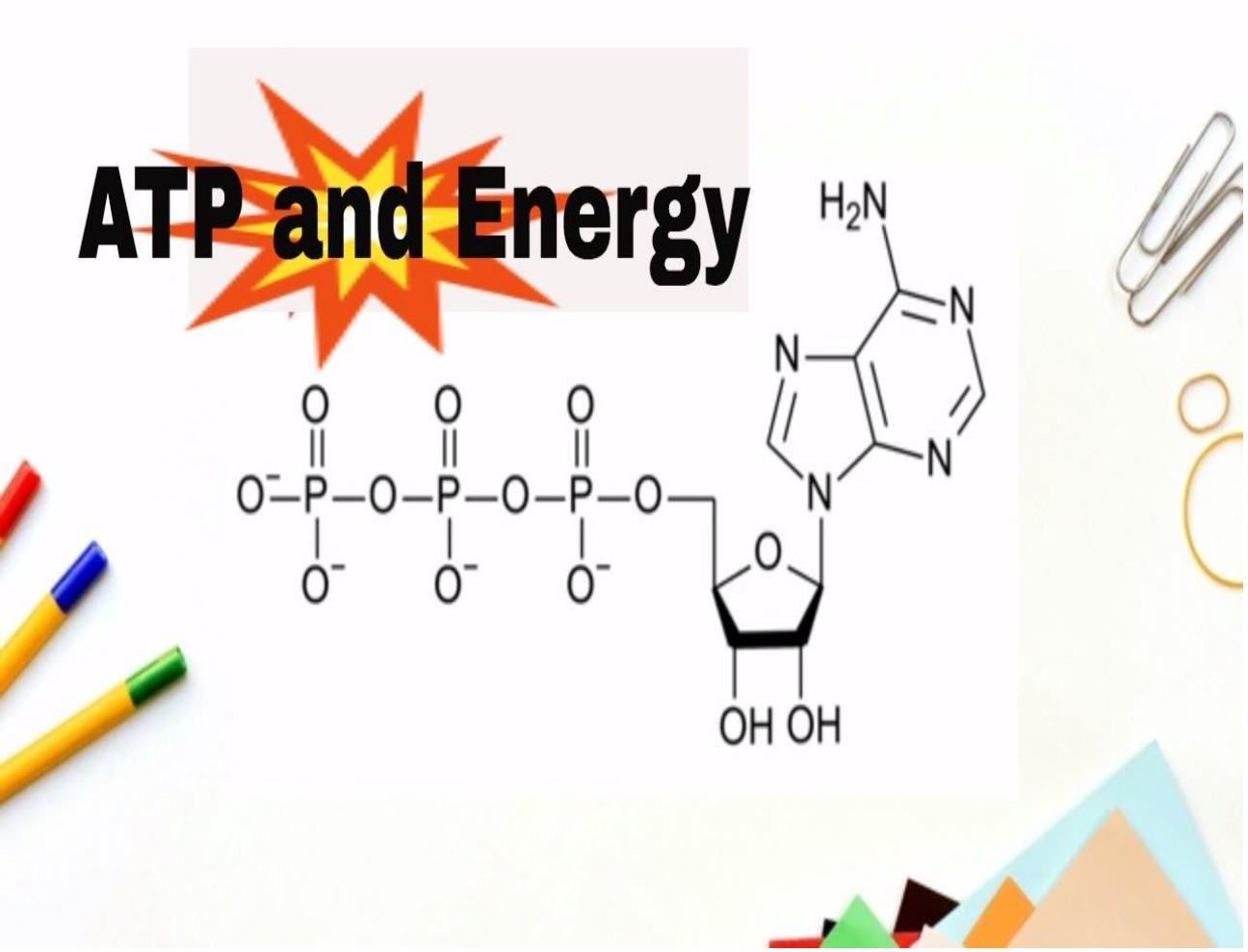
RNA – involved in reading the info in DNA and using it to make proteins

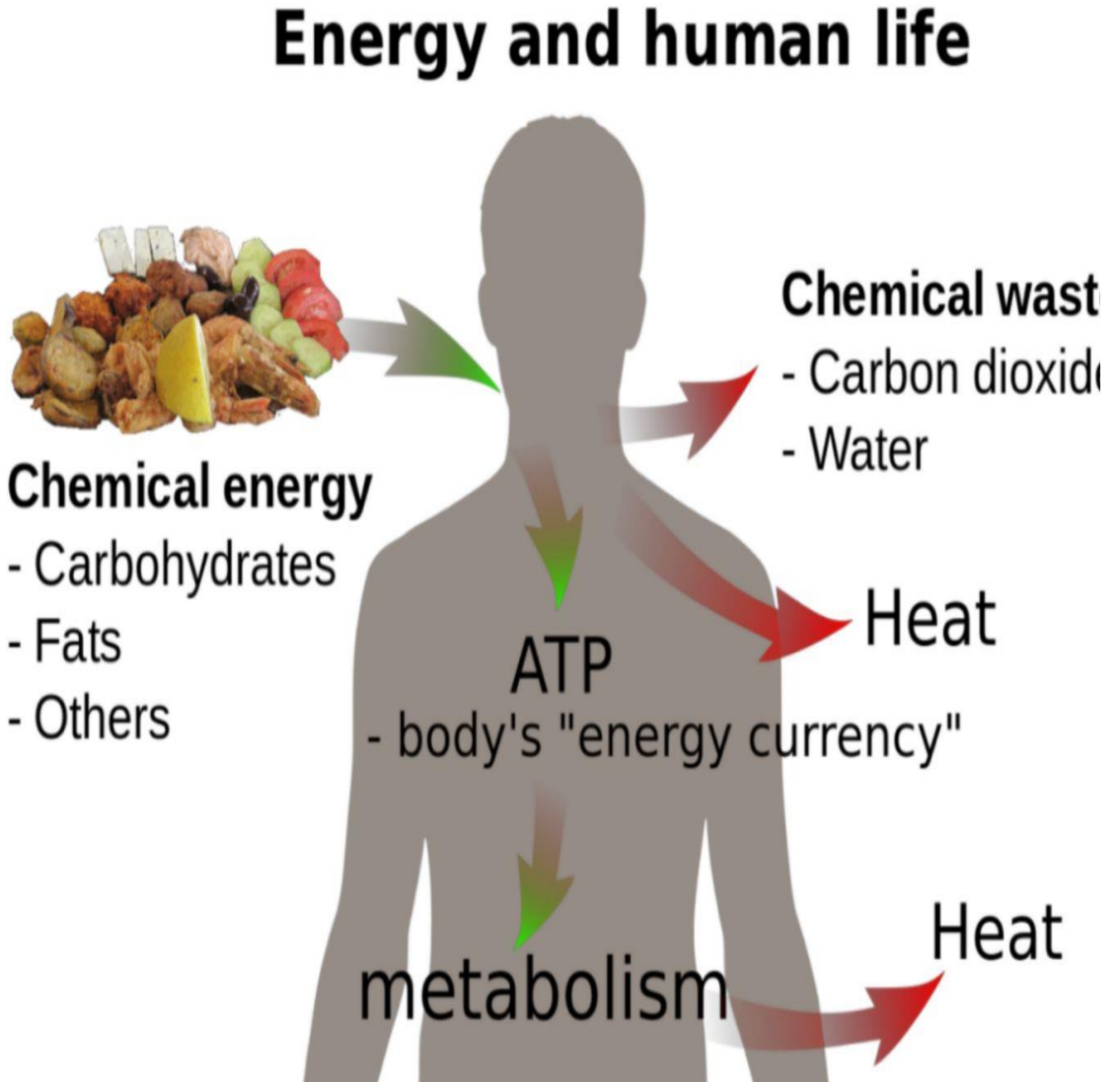


Examples and Functions

ATP **- holds and donates immediately usable energy**

Nucleic acid monomers can be used to transfer energy

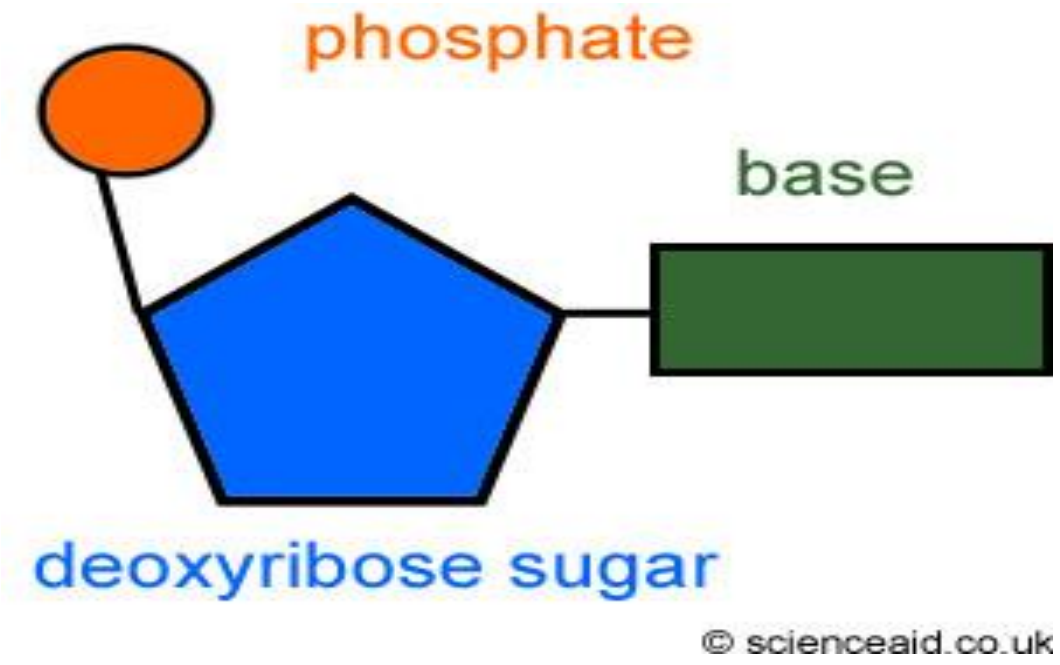


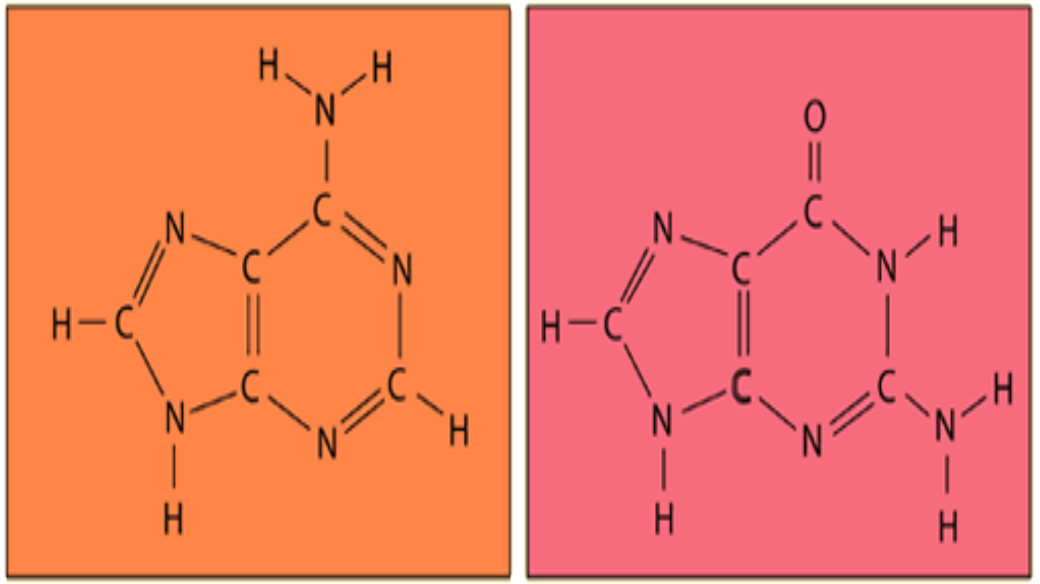


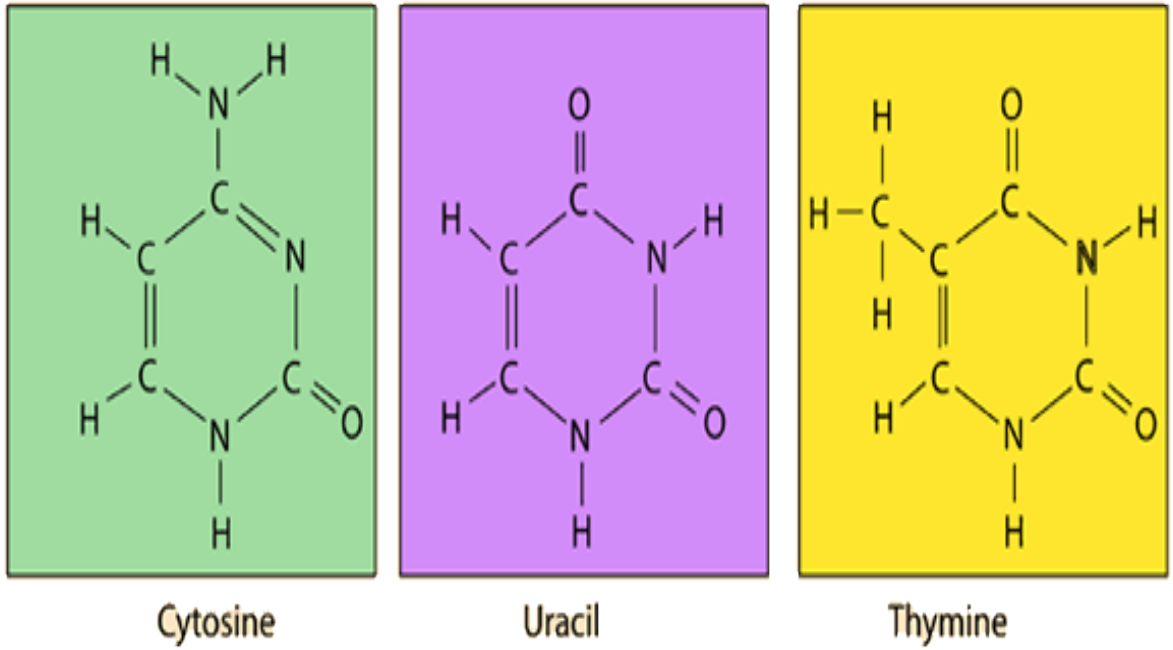
Structure

Monomers = 5 nucleotides

- Symbolized with the letters, A,T,G,C and U
- Part of the monomer is a <u>monosaccharide</u>
- The only part that differs is called a <u>base</u>





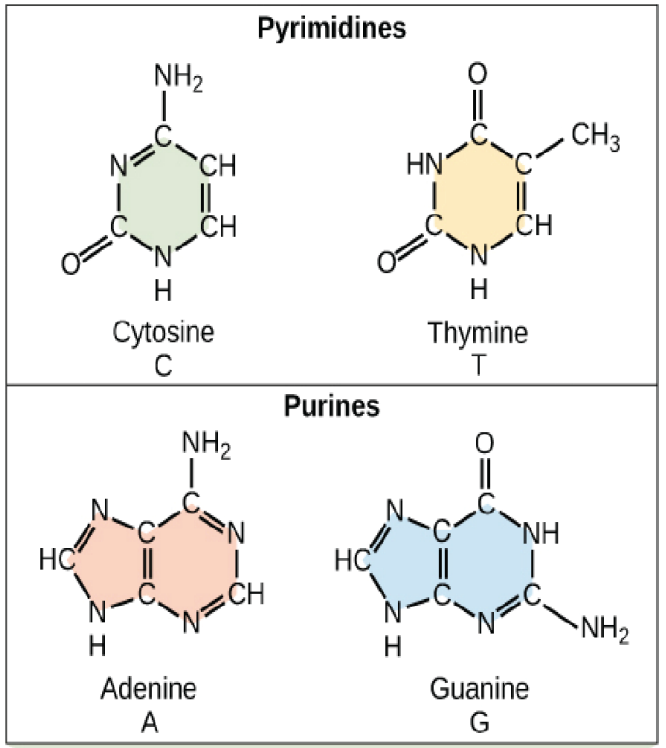


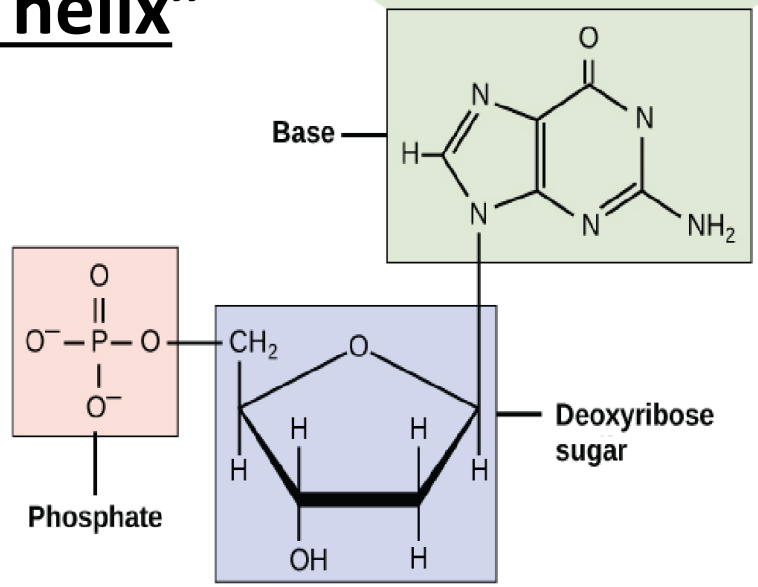
Structure

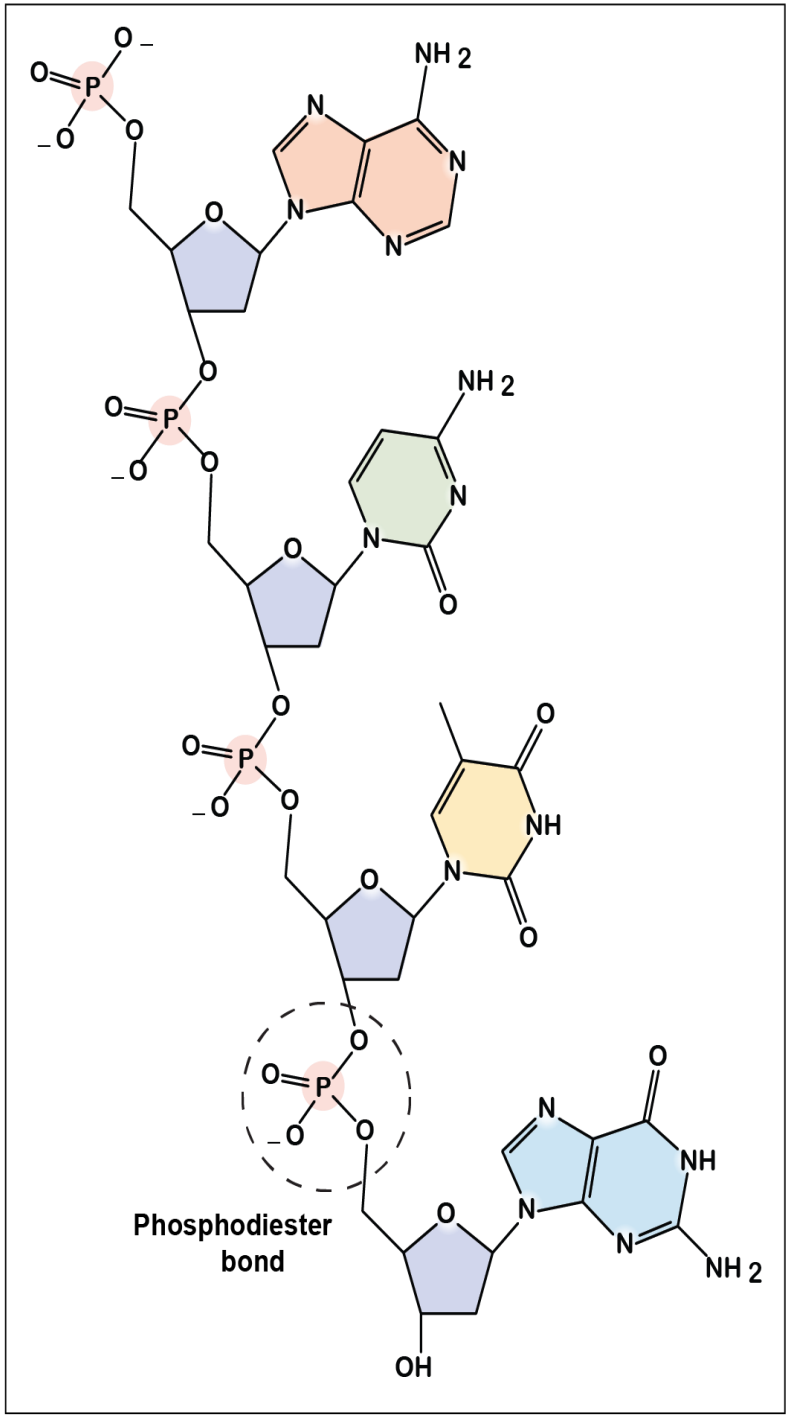
Polymers = <u>polynucleotides</u>
Can be extraordinary long

They exist as one long <u>molecule or strand</u>

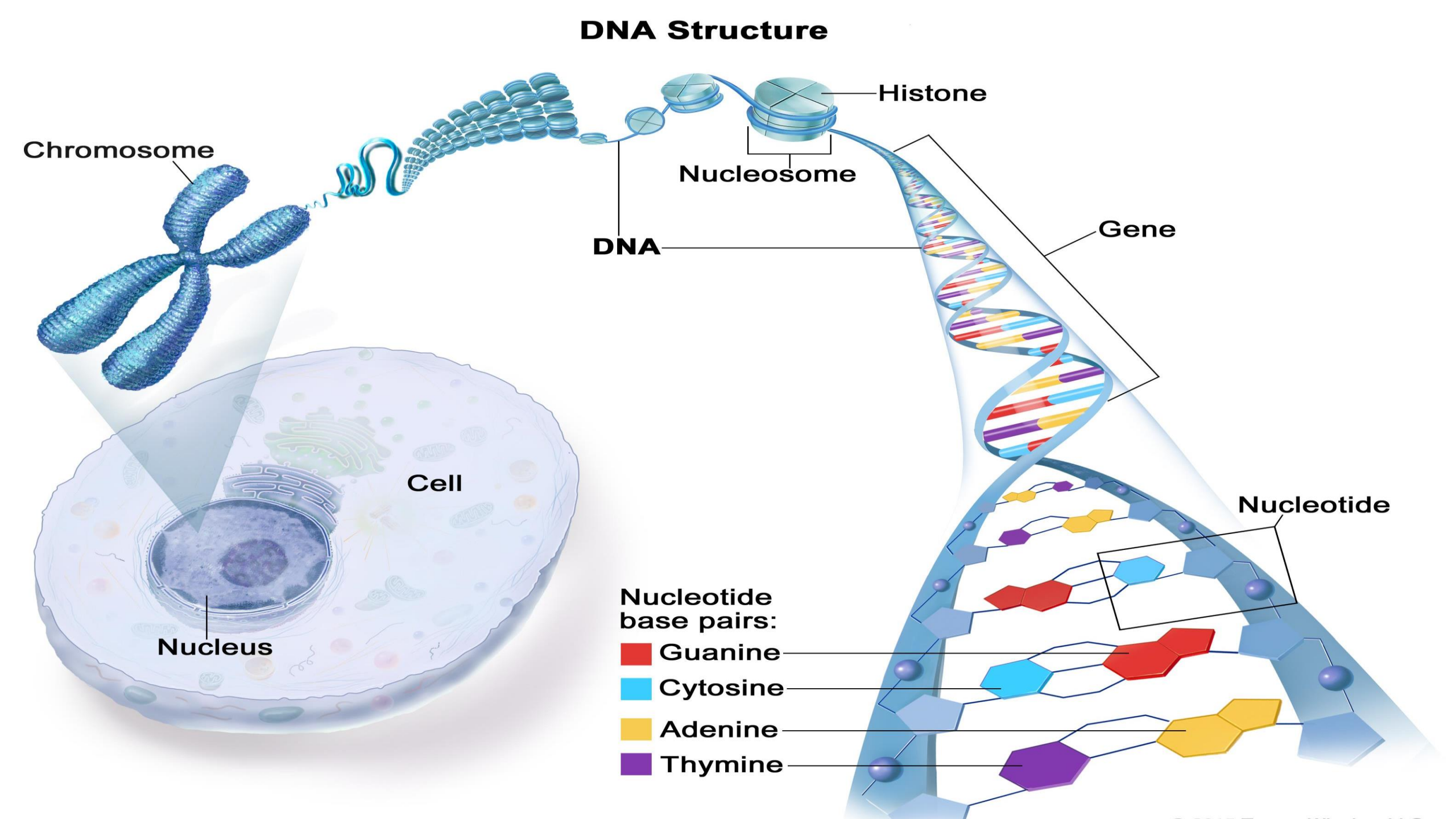
Two molecules twist together to form a "<u>double helix</u>"

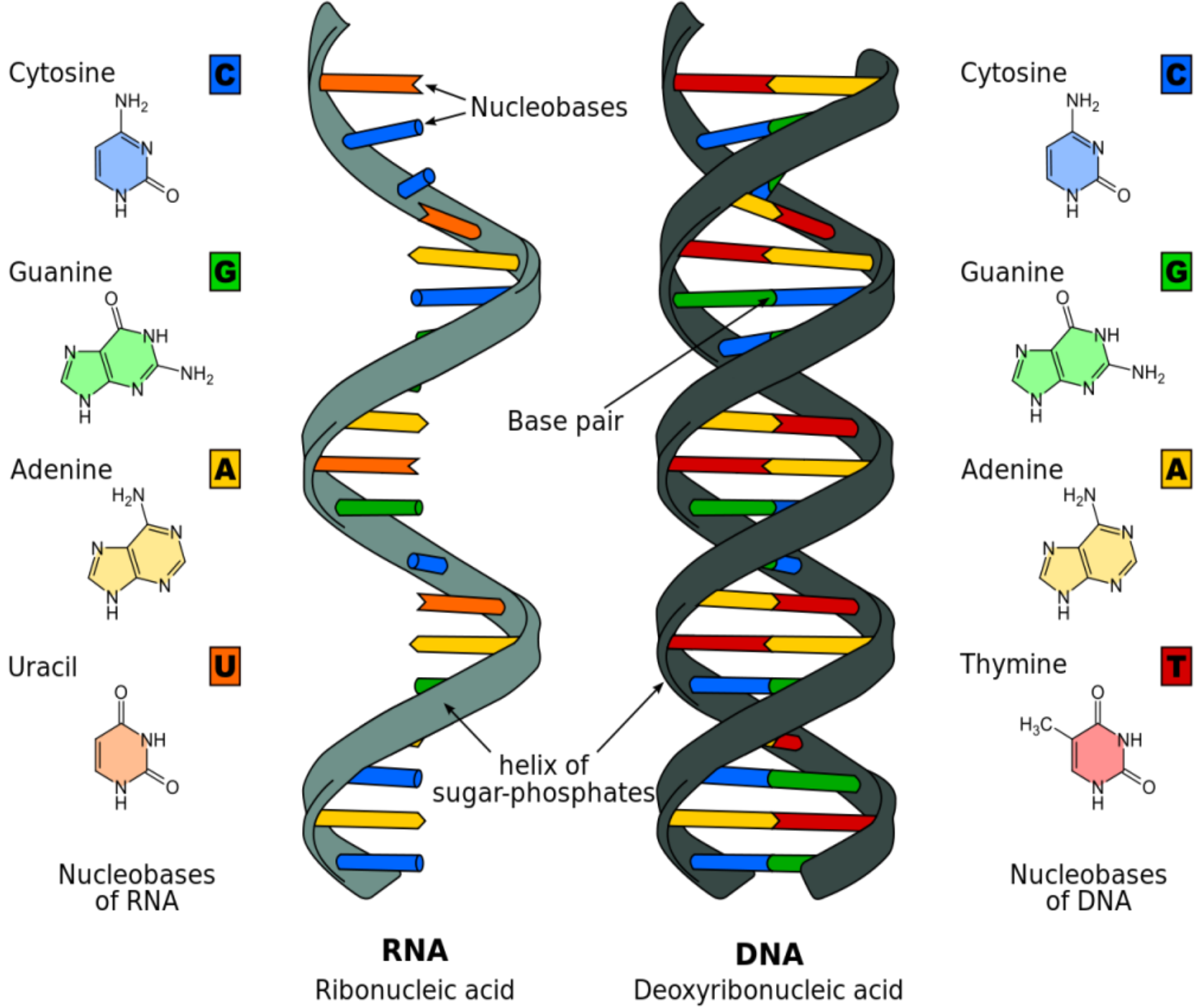






DNA Structure




Cytosine
C
Guanine
G
Adenine
A
Uracil
U
Nucleobases of RNA
Nucleobases
Base pair
helix of sugar-phosphates
RNA
Ribonucleic acid
DNA
Deoxyribonucleic acid
Cytosine
C
Guanine
G
Adenine
A
Thymine
T
Nucleobases of DNA