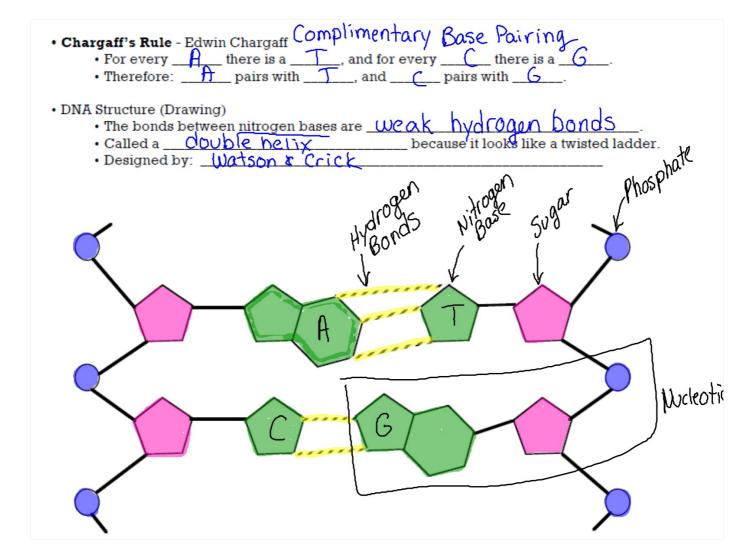
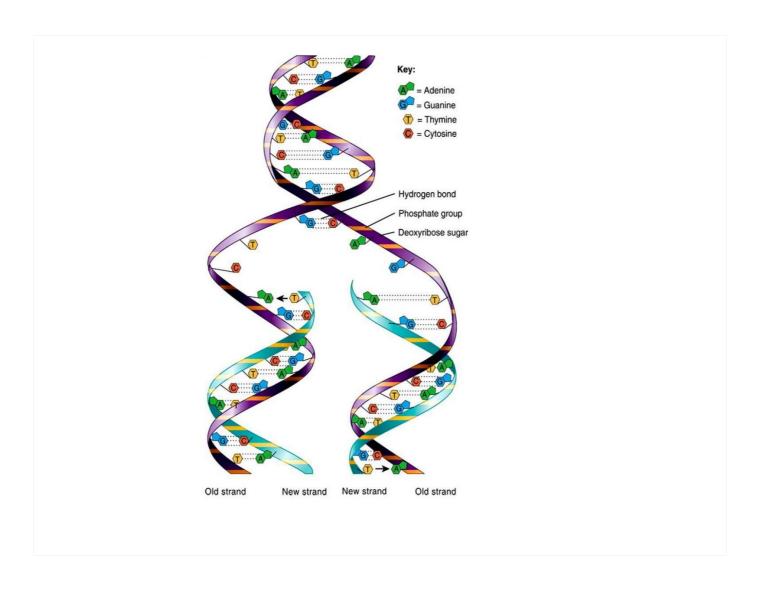
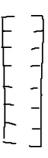
Nucleic Acids and Protein Synthesis	
That is DNA? Deoxyribonucleic Acid • DNA Basics: • DNA is a <u>Nucleic acid</u> <u>nucleotides</u> • DNA is composed of three things: • 1. <u>Sugar - Deoxyribose</u> • 2. <u>Phosphate</u> • 3. <u>Nitrogen Base</u>	(The building blocks of nucleic acids are
DNA Nitrogen Bases: Two bases are	(double ring structures)
• 2. <u>Guanine (6)</u> • Two bases are <u>Pyrimidines</u> • 1. <u>Cytosine (C)</u> • 2. <u>Thymine (T)</u>	(single ring structures)



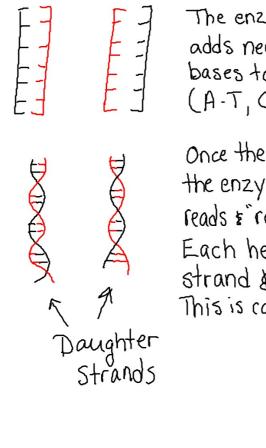




DNA in the nucleus needs to replicate in order for the cell to divide.



The enzyme <u>helicase</u> breaks the weak hydrogen bonds. This causes the helix to "unzip."



The enzyme DNA Polymerase adds new complimentary bases to the old strand.

(A-T, C-G)

Once the bases are added,
the enzyme <u>Ligase</u> proof
reads * rezips" the DNA.
Each helix has one old
strand & one new strand.
This is called semi-conservative.

