DNA, RNA, AND PROTEIN SYNTHESIS

1. Ladder
2. Wrap, double helix
3. Hydrogen bonds
4. Watson and Crick
5. Nucleotides

Deoxyribose

Phosphate

Bases

1. Circle = phosphate

Pentagon = deoxyribose sugar

Recatngle = nitrogen base

1. A, T, C, G
2. Guanine, 2
3. Thymine, 1
4. Rungs, A, C, =
5. DO NOT DO
6. So the cell can divide and have the right amount of DNA
7. Copying
8. DO NOT DO
9. DO NOT DO
10. Template
11. DO NOT DO
12. Light colored are the old strands, dark colored are the light strands.
13. DO NOT DO
14. Nucleus
15. mRNA
16. C, G,A
17. U, T
18. 2, 1
19. Just use your base pairing rules
    1. A binds with T (DNA) or U (RNA)
    2. T binds with A
    3. C binds with G
    4. G binds with C
20. Protein

Ribosome

Codon

Amino acid

Protein

Translation = the order is 2, 4, 3, 1 (amino acid order is MET-PHE-LYS-LEU)

1. DNA TAC TGA TCG ACC CCC ATA ATA AAA ATC

AA MET THR SER TRP GLY TYR TRY PHE STOP

1. mRNA AUG GCG AGG CGG CAG CUG UUA UGG UGA

AA MET ALA ARG ART GLN LEU LEU TRP STOP

1. DNA TAC CTC CCC CGT ATG GCT GGG AAT AUC

mRNA AUG GAG GGG GCA UAC CGA CCC UUA UAG

1. DO NOT DO
2. DO NOT DO