

DNA Structure and function worksheet
AP Biology

1. Match each scientist listed below with their contribution to the study of DNA.

- | | | |
|-----------------------|----------------------|----------------------|
| A. Frederick Griffith | B. Hershey and Chase | C. Rosalind Franklin |
| D. Watson and Crick | E. Erwin Chargaff | |

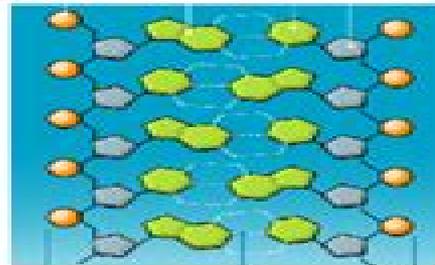
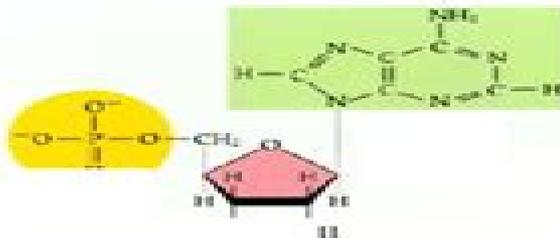
- ___E___ Discovered that there were equal amounts of the nitrogen bases A + T and C+ G in a human body cell, concluded that A paired with T and C paired with G.
- ___B___ Did experiments with viruses to determine that DNA, not protein, is the genetic material of a cell.
- ___A___ Did experiments with S and R strain pneumonia bacteria to determine that DNA is the genetic material of a cell
- ___C___ Took x-ray crystallography images of a DNA molecule.
- ___D___ Analyzed x-ray images to determine that DNA is a double helix shape, won the Nobel Prize

2. What is this picture, and how did it help us to understand the shape of DNA?

coil shaped



3. Label the nucleotide and double helix pictured below with the three parts of a nucleotide: *deoxyribose sugar*, *phosphate group*, *nitrogenous base*.



yellow-phosphate, pink- deoxyribose sugar, green- nitrogenous base

4. If we think of a DNA molecule as a ladder....

Alternating deoxyribose sugars and phosphate groups make up the sides of the ladder. nitrogenous bases make up the "rungs" (middle bars) of the ladder. The "rungs" are held together by hydrogen bonds.

5. **Purines** and **pyrimidines** are two types of nitrogen bases. Explain the difference between purines and pyrimidines, and list the nitrogen bases that fall under each category.

Difference:

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Ian Pickup



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