

**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    |                      |

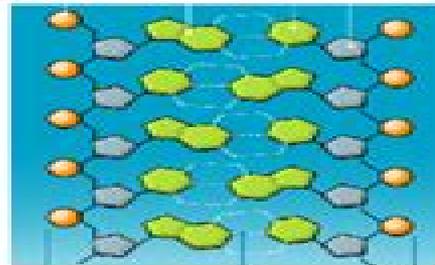
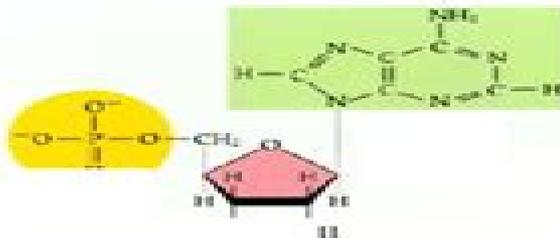
- \_\_\_E\_\_\_ Discovered that there were equal amounts of the nitrogen bases A + T and C+ G in a human body cell, concluded that A paired with T and C paired with G.
- \_\_\_B\_\_\_ Did experiments with viruses to determine that DNA, not protein, is the genetic material of a cell.
- \_\_\_A\_\_\_ Did 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:*

# Chapter 45 Ap Biology Answers

**Phillip E. Pack**



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*5 Steps to a 5 on the Advanced Placement Examinations* Mark Anestis,2001-12 A review and study guide for advanced placement study in biology

*Psycho-bio-physiology* Willard Carver,1920

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**The Publishers Weekly** ,1926

[Life](#) William Samson Beck,Karel F. Liem,George Gaylord Simpson,1991 Explains biology in detail from atoms to human populations in an easy to read format Also develops historical backgrounds of concepts and contains end of chapter summaries

*Agricultural Index* ,1923

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