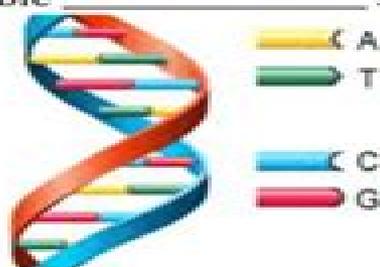
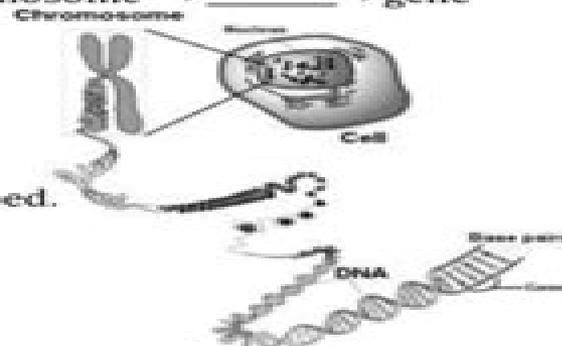


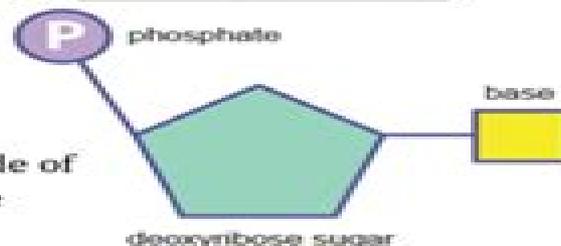
# Study Guide: DNA and Gene Technology Assessment

## DNA:

- Structures from largest to smallest: cell → \_\_\_\_\_ → chromosome → \_\_\_\_\_ → gene
- A \_\_\_\_\_ is a set of instructions for each trait.
  - Genes are found on \_\_\_\_\_
  - Chromosomes are made up of DNA.
- Rosalind \_\_\_\_\_ was able to create images of DNA molecules using X-Rays and discover that DNA was spiral shaped.
- \_\_\_\_\_ and \_\_\_\_\_ made models to determine DNA's "twisted ladder" or double \_\_\_\_\_ structure.



- The picture above is the basic structure of DNA and it is made of \_\_\_\_\_.
- A nucleotide (pictured to the right) in a DNA molecule is made up of a sugar, a \_\_\_\_\_, and a base.
- In a DNA nucleotide, the \_\_\_\_\_ of the "ladder" is made of \_\_\_\_\_ different nitrogen bases and the \_\_\_\_\_ of the "ladder" are made of sugar and phosphate molecules.



- In DNA there are four different bases: \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.
- According to Chargaff's rules Adenine always pairs with \_\_\_\_\_ and Cytosine always pairs with \_\_\_\_\_. A-T and C-G
- The complementary strand of ATTGCCG is \_\_\_\_\_ (because A goes to T and G always goes to C)

## Genetic Engineering

- Cloning- process of making an identical \_\_\_\_\_ of another organism using its DNA.
- \_\_\_\_\_, the sheep, is the first successfully cloned mammal because of genetic engineering.

# Gene Technology Study Guide

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Silver, Robert Resnik, Judette  
Louis, Lorraine Dugoff**

## **Gene Technology Study Guide:**

## Whispering the Strategies of Language: An Emotional Quest through **Gene Technology Study Guide**

In a digitally-driven world wherever displays reign great and immediate transmission drowns out the subtleties of language, the profound strategies and emotional nuances hidden within words frequently get unheard. However, situated within the pages of **Gene Technology Study Guide** a interesting fictional value blinking with natural thoughts, lies a fantastic quest waiting to be undertaken. Published by a talented wordsmith, this wonderful opus attracts readers on an introspective trip, softly unraveling the veiled truths and profound affect resonating within the very cloth of each word. Within the psychological depths with this emotional review, we will embark upon a heartfelt exploration of the book is primary subjects, dissect its interesting publishing style, and yield to the effective resonance it evokes heavy within the recesses of readers hearts.

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