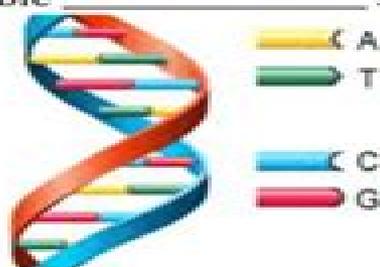
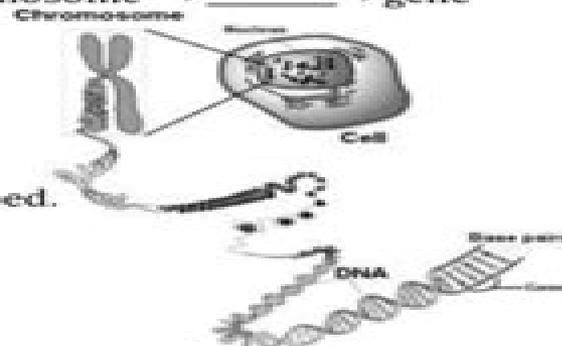


# Study Guide: DNA and Gene Technology Assessment

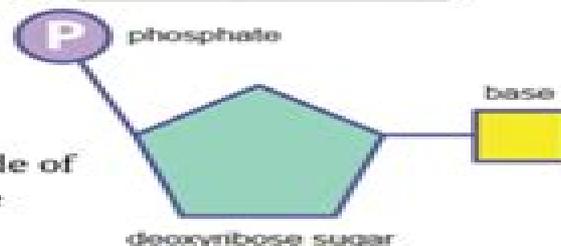
## DNA:

- 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.



- 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

**L Towne**



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