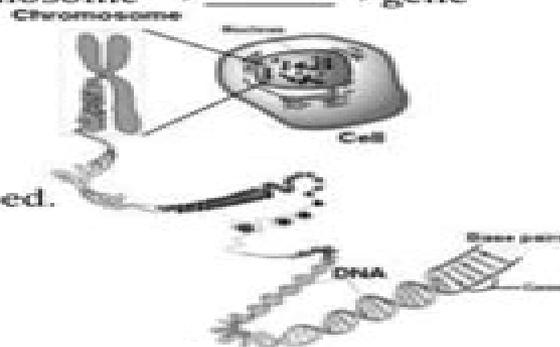


Study Guide: DNA and Gene Technology Assessment

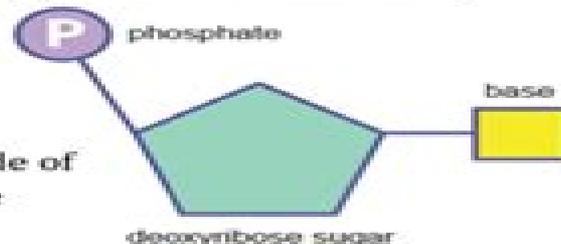
DNA:

- 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

Chao Zhang



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