

Study Guide: DNA and Gene Technology Assessment

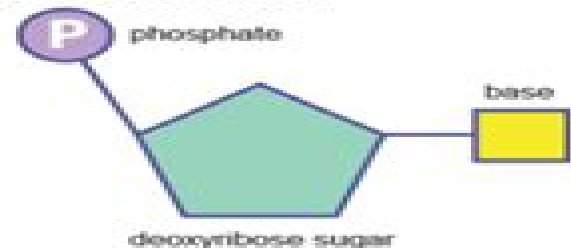
DNA:

- Structures from largest to smallest: cell → nucleus → chromosome → DNA → gene
- A gene is a set of instructions for each trait.
 - Genes are found on chromosomes.
 - Chromosomes are made up of DNA.
- Rosalind Franklin was able to create images of DNA molecules using X-Rays and discover that DNA was spiral shaped.
- Watson and Crick made models to determine DNA's "twisted ladder" or double helix structure.
- According to Chargaff's rules Adenine always pairs with Thymine and Cytosine always pairs with Guanine. A-T and C-G
- The complementary strand of:
ATTGCCG is
TAACGGC



(because A goes to T and G always goes to C)

- The picture above is the basic structure of DNA and it is made of nucleotides.
- A nucleotide (pictured to the right) in a DNA molecule is made up of a sugar, a phosphate, and a base.
- In a DNA nucleotide, the middle of the "ladder" is made of four different nitrogen bases and the sides of the "ladder" are made of sugar and phosphate molecules.
- In DNA there are four different bases: Adenine, Thymine, Cytosine, and Guanine



Genetic Engineering

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

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