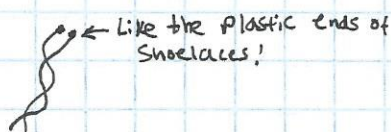


DNA Study Guide

VOCABULARY

- * Transformation: Mutation
- * Bacteriophage: A virus parasiting a bacterium (by infecting it and reproducing inside it).
- * Base pairing: Pairing of Nitrogenous Bases (A~T, C~G).
- * Replication: Copying of DNA Strands. ALWAYS one new strand, one original Strand.
- * DNA polymerase: Enzymes that create DNA molecules by assembling nucleotides.
- * Telomere: Affects how our cells age. Protects Chromosomes. Located at the ends of DNA Strands.



- * Nucleotide: THE BUILDING BLOCKS OF DNA. Composed of phosphate group, Nitrogenous Base (only one), and Sugar group (3 parts).
- * Deoxyribose: Monosaccharide. deoxy Sugar (deoxyribose w/ one oxygen atom removed).

* Adenine
Thymine
Cytosine
Guanine

Nitrogenous Bases used for DNA Code.

- * Replication fork: Created by Helicase, which breaks the Hydrogen Bonds that Hold DNA Strands together.

- Structure forms within nucleus during DNA replication.



- * Nitrogen Bases: Simply a nitrogen containing molecule that has chemical properties of a base. Make up building Blocks of DNA/RNA.
- * Covalent Bonds: Hold together Nucleotides. Sharing of electron pairs between atoms.
- * Hydrogen Bonds: Hold together Entire Strands of DNA. Attraction between hydrogen attached to an electromagnetic Atom of one molecule & an electromagnetic atom of another.

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GUIDING QUESTIONS

- 1) What is the process of DNA replication?
 - double strand helix is unwound - each strand acts as a basis for the next strand.