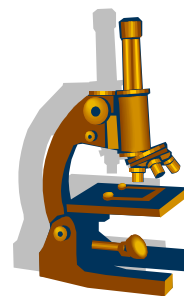


Student Study Guide - Biology



Building Molecules:

For your test you should be able to demonstrate your understanding of the following items:

- Name each subatomic particle of an atom, their placement and charge within an atom.
- Definition of an ion, isotope, hydrophilic, hydrophobic, and radioactive isotope.
- Name the three basic bonds and define their relationships between elements.
- How the elements are arranged on the periodic table and know the information provided in an individual box within it.
- Identify a given variety of isotopes (e.g., regular form, a stable isotope, and unstable radioactive isotope).
- Identify and explain Three properties of water.
- Identify the four basic elements, which one is most electronegative, and which one is most versatile and why. Also be able to identify four basic macromolecules of living things.
- Justify how changes in an amino acid sequence will affect the structure and function of a hemoglobin molecule and how a specific sequence of amino acid determines the shape of a protein.
- Differentiate between hydrophilic and hydrophobic properties and give examples of each one.
- Identify pH levels in solution and by number.
- Explain how enzymes are critical to cell survival with regulation of biochemical reactions.
- The four basic macromolecules, the various types there are, their shape, function, how their form fits function, their subunits (monomers), and an example of each one.
- The four levels of protein structure, the shape/structure of each level, and the bonding that occurs at each level.
- Explain how the shape of nucleic acids facilitates the creation of new DNA molecules for other cells.

Review all handout materials, class notes and your ticked ins.

And

STUDY!

STUDY!

STUDY!

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