

AC Biology Cellular Energy Topic Review

1. Cellular Energy

- a. **Know how autotrophs and heterotrophs get the energy they need to survive.** In autotrophs food provides both the energy to do work and the carbon to build bodies. Because most autotrophs transform sunlight to make food, we call the process they use photosynthesis. Heterotrophs cannot make their own food, so they must eat or absorb it.

2. ATP

- a. **Know the structure of ATP.** ATP is a nucleotide that consists of three main structures: the nitrogenous base, adenine; the sugar, ribose; and a chain of three phosphate groups bound to ribose.
- b. **Know the function of ATP as a form of energy to be used by the cell to do various cellular processes.** The process of photosynthesis also makes and uses ATP - for energy to build glucose! ATP, then, is the useable form of energy for your cells. ATP is commonly referred to as the "energy currency" of the cell.

3. Enzymes

- a. **Know the structure of enzymes.** Enzymes are made up of amino acids which are linked together via peptide bonds in a linear chain.
- b. **Know the function of enzymes.** Enzymes generally lower activation energy by reducing the energy needed for reactants to come together and react.
- c. **Know what factors can affect how an enzyme works, such as temperature, pH, competitive inhibitors, and concentration of enzyme or substrate.** Temperature and pH both affect how the enzyme works. Activators increase the activity of an enzyme while inhibitors decrease the activity of an enzyme.
- d. **Know what is meant by enzymes having a "specificity".** Specificity is the ability of an enzyme to choose exact substrate from a group of similar chemical molecules.

4. Photosynthesis

- a. **Know where photosynthesis happens.** Inside chloroplasts.
- b. **Know and be able to explain the equation for photosynthesis.**
 $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{light energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
- c. **Be able to explain where the reactants of photosynthesis come from.** Plants, algae, and photosynthetic bacteria take in

Review Guide For Cellular Energy

Daniel F McAuley



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