

AP Biology Enzyme Understanding Questions

This is in NO WAY a complete review

- Would forming a polysaccharide be a catabolic or anabolic reaction?
- Would digestion of a fat be a catabolic or anabolic reaction?
- What is entropy? How is it involved with biology?
- Give an example of potential energy in a biological organism.
- Give an example of kinetic energy in a biological organism.
- Give an example of the first law of thermodynamics in a biological organism or system
- Why isn't all energy available to do work?
- How does metabolic disequilibrium maintain homeostasis in biological organisms.
- Using the words: endergonic, exergonic, catabolic, anabolic, entropy (less or more), spontaneous, non-spontaneous, stable and non- stable, free energy (less or more)
- Describe the following situations:
 - Formation of a polypeptide
 - Hydrolysis
 - Photosynthesis
 - DNA Replication
 - Formation of ATP
 - Building of Bone
 - Enzymatic Breakdown of Glycogen
 - Protein Synthesis
 - Cellular Respiration
 - Digestion