
AP BIO- Enzymes and Gibbs Free Energy Questions and Answers

metabolic pathway - ANSWER-A series of chemical reactions that either builds a macromolecule or breaks down a macromolecule into simpler compounds
*Results in a gain of energy

activation energy - ANSWER-Energy needed to get a reaction started

How to overcome activation energy - ANSWER-1) ATP- break off 1 phosphate releases approx. 7.9 KJ
2) coupled reactions
3) redox reactions
4) enzymes

redox reaction - ANSWER-movement of energy through the exchange of electrons

Enzymes - ANSWER-a protein that catalyzes a reaction- meaning it decreases the amount of energy needed
-enzyme catalyzes substrate- substrate does the reacting

catalyst - ANSWER-enables reactions by eliminating the activation energy. They are unchanged by the reaction.

Catabolic - ANSWER-process where large molecules are broken down

Anabolic - ANSWER-process where large molecules are built from small molecules

active site - ANSWER-a region on an enzyme that binds to a protein or other substance during a reaction- where reaction occurs

cofactors and coenzymes - ANSWER-help substrates bind to enzymes

lock and key - ANSWER-Model of enzyme activity that explains how a particular enzyme will only fit with one particular type of substrate. (perfect fit)

induced fit - ANSWER-enzymes changes shape (allosteric change) to better fit the substrate

substrate- enzyme interaction - ANSWER--enzyme releases
-enzyme pulls apart and substrate goes in
-with substrate in enzyme brings reactants together (allosteric change)
-product is released out of enzyme

enzyme inhibition - ANSWER-means by which cells bind to and regulate/ inhibit enzyme activity; may be competitive or noncompetitive inhibition

Enzymes And Energy Questions And Answers

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Enzymes And Energy Questions And Answers:

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