

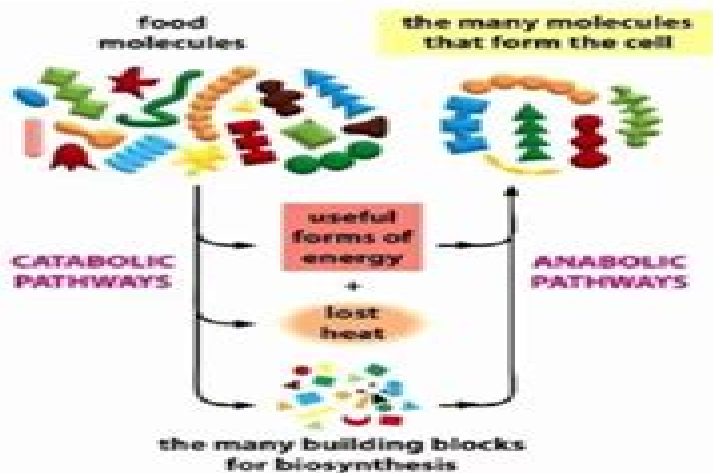
Module 2: Metabolism/Photosynthesis/Enzymes

2.1, Metabolism

Metabolism – Refers to all chemical reactions occurring within a cell.

Anabolic Reactions – build up, consumes energy.

Catabolic Reaction – break down, releases energy.



Catabolic and Anabolic Pathways

Catabolic Pathways	Anabolic Pathways	All Metabolic Pathways
Breakdown of molecules	Building molecules	Tightly regulated (occur only as needed)
Overall release energy	Overall consume energy	Necessary for cell survival
Rely on oxidized coenzymes (especially NAD ⁺) to oxidize intermediates	Rely on reduced coenzymes (especially NADPH) to reduce intermediates	Require enzymes
Example: cellular respiration	Example: lipid biosynthesis	—

Enzymes are biological catalysts, they accelerate a reaction by making it more energetically favorable. They lower the activation energy of a reaction. They are proteins, their structure being dictated by the DNA sequence that encodes for it. They are not used up in the reaction.

Cofactor – metal ions that activate or enhance enzyme activity (Ca²⁺, Zn²⁺)

Substrate – the target of the enzyme

Metabolism Energy And Enzymes Study Guide

Léo Pomar



Metabolism Energy And Enzymes Study Guide:

Metabolism Energy And Enzymes Study Guide Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Metabolism Energy And Enzymes Study Guide**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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