

# Understanding Energy, Enzymes, and Metabolism: A Comprehensive Overview

## Introduction

This content synthesizes key concepts related to energy dynamics, the role of enzymes, and metabolic pathways. We will delve into the fundamental principles of thermodynamics, explore enzyme functionality, and discuss metabolic processes essential for cellular activities.

## Energy and Chemical Reactions

### Free Energy (G)

- **Total energy = Usable energy (G) + Unusable energy ( $S \times T$ )**
  - $H$  = Enthalpy (Total energy)
  - $G$  = Free energy (usable energy for work)
  - $S$  = Entropy (unusable energy)
  - $T$  = Absolute temperature in Kelvin (K)
- **Equation: ( $G = H - TS$ )**

### Laws of Thermodynamics

1. **First Law:** Energy cannot be created or destroyed, only transformed.
2. **Second Law:** Every energy transfer or transformation increases the entropy (disorder) of the universe.

### Types of Reactions

- **Exergonic Reactions: ( $\Delta G < 0$ )**

# Metabolism Energy And Enzymes Study Guide Answers

**Yijin Wang**



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
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