

Chapter 6: Energy, Enzymes, and Biological Reactions

Energy, Life, and Laws of Thermodynamics:

- Energy is defined as the capacity to do work
- Energy exists in many different forms, including heat, chemical, electrical, mechanical, and radiant energy (including light, gamma rays, and X-rays)
- Energy can be converted from one form to another – in plants, the radiant energy of sunlight is transformed into chemical energy in the form of organic molecules
- All forms of energy can exist in one of two states (kinetic or potential), which are interconvertible
- **Kinetic energy** is the energy of an object in motion
 - Examples: a falling rock, electricity, and light
- **Potential energy** is stored energy
 - Examples: a rock at the top of a hill, chemical energy, gravitational energy, and stored mechanical energy
- **Thermodynamics** is the study of energy and its transformations
- When discussing thermodynamics, scientists refer to a system, which is the object under study – everything outside a system is its surroundings
- There are three types of systems: isolated, closed, and open systems
- All living organisms are open systems

First law of thermodynamics

- energy can be transformed from one form to another, or transferred from one place to another
- Also called the principle of conservation of energy
- In any process that involves energy change, the total amount of energy in a system and its surroundings remains constant

Second law of thermodynamics

- The total disorder (entropy) of a system and its surroundings always increases
- Living organisms seem to decrease in entropy as they grow – but when nutrients and waste products are considered, total energy remains constant and entropy increases

Energy flow from the Sun:

- For most organisms, the ultimate source of energy is the sun – plants capture kinetic energy of light and convert it to the chemical potential energy of complex organic molecules
- Chemical potential energy stored in sugars and other organic molecules is used for growth, reproduction, and other work of living organisms
- Eventually most of the solar energy absorbed by green plants is converted into heat energy (which is largely unusable by living organisms) and radiated into space

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