

Chapter 8: An Introduction to Metabolism

- 8.1 Identify the first two laws of thermodynamics and explain how they relate to biological systems.
- 8.2 Explain what is meant by change in free energy and relate it to the following: spontaneous reactions, capacity to do work, stability, and exergonic and endergonic reactions.
- 8.3 Use examples to illustrate the coupling of ATP hydrolysis to endergonic reactions.
- 8.4 Explain how enzymes speed up metabolic reactions.
- 8.5 Describe how regulation of enzyme activity helps control metabolism.

This chapter on energy transfer and enzyme function is fundamental to your understanding of numerous topics discussed later in the course. Your careful study of this chapter will help you understand biological pathways and the regulation of cellular processes.

Study Tip: As you read this chapter, consider which processes described release energy and which ones require an input of energy.

Concept 8.1 An organism's metabolism transforms matter and energy

LO 8.1: Identify the first two laws of thermodynamics and explain how they relate to biological systems.

The totality of an organism's chemical reactions is called *metabolism*. As a whole, metabolism manages the material and energy resources of the cell in intersecting pathways.

1. There are two types of reactions in metabolic pathways: *anabolic* and *catabolic*.
 - a. Which reactions release energy?
 - b. Which reactions consume energy?
 - c. Which reactions build up larger molecules?
 - d. Which reactions break down molecules?
 - e. Which reactions are considered "uphill"?
 - f. Which type of reaction is photosynthesis?
 - g. Which type of reaction is cellular respiration?
 - h. In living systems which reactions require enzymes to catalyze them?

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**Lisa Urry, Michael Cain, Steven
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