

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?

Ap Bio Chapter 8 Study Guide Answers

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Resources in Education, 1996 **Biology** Neil A. Campbell, Jane B. Reece, 2005 Neil Campbell and Jane Reece's BIOLOGY remains unsurpassed as the most successful majors biology textbook in the world. This text has invited more than 4 million students into the study of this dynamic and essential discipline. The authors have restructured each chapter around a conceptual framework of five or six big ideas. An Overview draws students in and sets the stage for the rest of the chapter; each numbered Concept Head announces the beginning of a new concept; and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept. New Inquiry Figures focus students on the experimental process, and new Research Method Figures illustrate important techniques in biology. Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter. *Title 21 Food and Drugs Parts 300 to 499 (Revised as of April 1, 2014)* Office of The Federal Register, Enhanced by IntraWEB, LLC, 2014-04-01 The Code of Federal Regulations Title 21 contains the codified Federal laws and regulations that are in effect as of the date of the publication pertaining to food and drugs, both legal pharmaceuticals and illegal drugs.

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