

## Chapter 8: Photosynthesis

### Section 8-1 Energy and Life (pages 201-203)

#### Autotrophs and Heterotrophs (page 201)

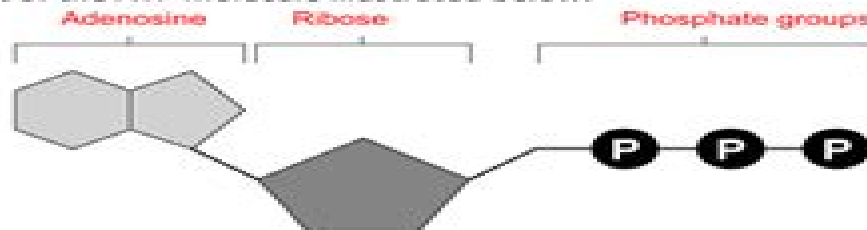
- Where does the energy of food originally come from?  
*The sun, plants use light energy to make food*
- Complete the table describing the types of organisms.

**TYPES OF ORGANISMS**

Type	Description	Examples
autotrophs	Organisms that make their own food	Plants
heterotrophs	Organisms that obtain energy from the food they eat	Animals

#### Chemical Energy and ATP (page 202)

- What is one of the principal chemical compounds that cells use to store energy?  
*ATP (adenosine triphosphate)*
- How is ATP different from ADP?  
*ATP has 3 phosphate groups and ADP has 2 phosphates*
- Label each part of the ATP molecule illustrated below.



- When a cell has energy available, how can it store small amounts of that energy?  
*By adding a phosphate group to ADP, producing ATP*
- When is the energy stored in ATP released?  
*By breaking the chemical bond between the second and third phosphates*

# Chapter 8 Photosynthesis Section 1 Answer Key

**M Lipman**



## Chapter 8 Photosynthesis Section 1 Answer Key:

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*SAT II Biology For Dummies* Scott A. Hatch, Lisa Zimmer Hatch, 2005-04-01

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*Photosynthetic Mechanisms and the Environment* James Barber, Neil R. Baker, 1985

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