

Chapter 8: Photosynthesis

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

Autotrophs and Heterotrophs (page 201)

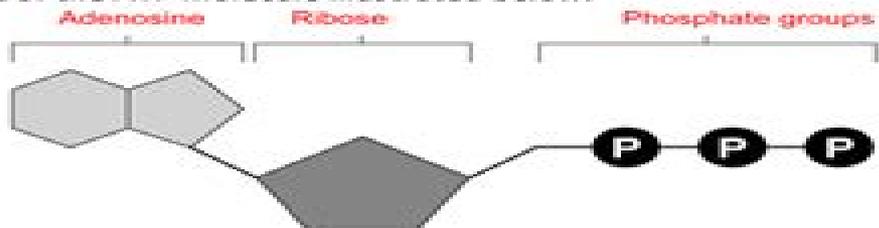
- Where does the energy of food originally come from?
The sun, plants use light energy to make food
- Complete the table describing the types of organisms.

TYPES OF ORGANISMS

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

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 Section 2 Photosynthesis Quick Check Answers

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