

## Biology Chapter 8-1 and 8-2

### Pages 200-207

- Objectives: Students will
- A) Compare autotrophs and heterotrophs
- B) List the three parts of ATP
- C) Compare and identify the role of ATP and ADP
- D) Summarize photosynthesis
- E) Write the PSN equation



Obj. A) Compare autotrophs and heterotrophs

What are autotrophs?	What is a Heterotroph?
<ul style="list-style-type: none"> <li>_____</li> <li>– Use _____ to make _____</li> <li>– Usually _____</li> <li>– Food _____</li> <li>– Provide _____</li> <li>– Examples _____</li> </ul>	<ul style="list-style-type: none"> <li>_____</li> <li>• Eat _____</li> <li>And/or other _____</li> <li>Loses _____ as you move _____ the _____</li> <li>Examples _____</li> </ul>



Obj. A) Compare autotrophs and heterotrophs

### Biological systems need energy!

#### For What?

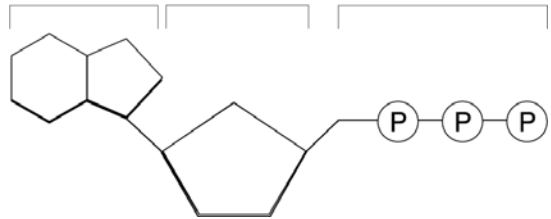
- To do “\_\_\_\_\_”
- \_\_\_\_\_ activities
- \_\_\_\_\_
- Movement
- \_\_\_\_\_
- Repair

#### How stored?

- \_\_\_\_\_ BONDS



Obj. B) List the 3 parts of ATP



Obj. A) Compare autotrophs and heterotrophs

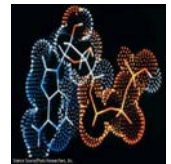
### Chemical Energy.....

- \_\_\_\_\_ in \_\_\_\_\_  
(Plant or Animal)
- \_\_\_\_\_ in \_\_\_\_\_  
\_\_\_\_\_ as \_\_\_\_\_
- \_\_\_\_\_ by \_\_\_\_\_  
\_\_\_\_\_ in \_\_\_\_\_  
\_\_\_\_\_ burns the \_\_\_\_\_

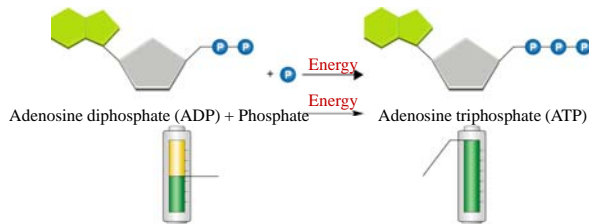


Obj. C) Compare and identify the role of ATP and ADP

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_ comes from \_\_\_\_\_  
when a \_\_\_\_\_ adds  
to \_\_\_\_\_
- Formed from release of chemical  
\_\_\_\_\_ in \_\_\_\_\_  
(\_\_\_\_\_)

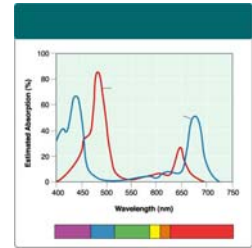
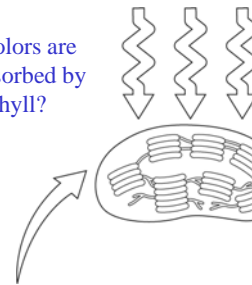


Obj. C) Compare and identify the role of ATP and ADP



Obj. E) Write the PSN equation

What colors are best absorbed by chlorophyll?



What color is not absorbed?

Obj. C) Compare and identify the role of ATP and ADP

\_\_\_\_\_ energy  
in cell      in \_\_\_\_\_  
bonds

+ \_\_\_\_\_

= \_\_\_\_\_ of      Forms      So \_\_\_\_\_  
\_\_\_\_\_ can do

Obj. E) Write the PSN equation

Word Version **The Equation**

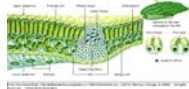
Chemical Formula  
Version

Obj. D) Summarize photosynthesis

\_\_\_\_\_ energy Ch. 8-2



Plant Photosynthesis



• Primary Energy Source for what process?

• \_\_\_\_\_

• Used by \_\_\_\_\_

• \_\_\_\_\_

\_\_\_\_\_ in chloroplasts absorbs

• **Makes** \_\_\_\_\_

• Uses

• \_\_\_\_\_

• \_\_\_\_\_

• \_\_\_\_\_

• \_\_\_\_\_

Answer the following Questions while watching the following 5 minute video.

- 1. What is necessary for photosynthesis that tall plants can access more easily?
- 2. What is the pigment found in chloroplasts called?
- 3. What is produced by the chlorophyll that is tested for with iodine?
- 4. What are ATP molecules?