

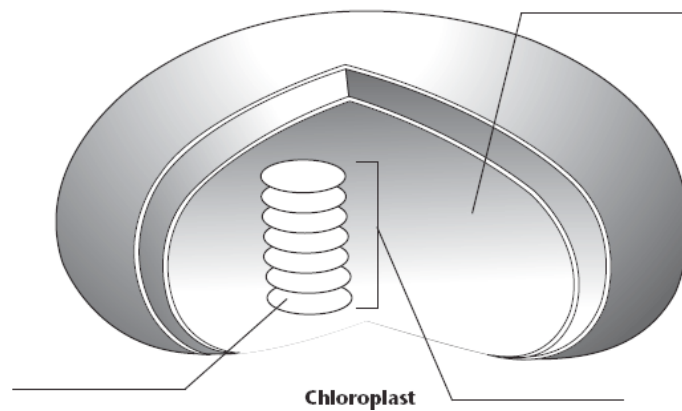
Chapter 8 Homework 2 (Pg. 230-234)

Name _____ Period _____ Score _____

Absent Date of Absence _____

Late

1. The _____ of light determines its color.
2. Chemicals that absorb light are called _____.
3. Chlorophyll makes plants look green because it _____ green light.
4. Chloroplasts contain an abundance of saclike photosynthetic membranes called _____.
5. The _____ is the fluid portion of the chloroplast located outside the thylakoids.
6. The visible light absorbed by chlorophyll _____ the energy level of the chlorophyll's electrons.
7. Label the internal parts of the chloroplast below.



8. Where do the high-energy electrons carried by NADPH come from?

9. _____ What are the reactants of the photosynthesis reaction?

| | |
|------------------------------------|---|
| A. chlorophyll and light | C. carbohydrates and oxygen |
| B. carbon dioxide and water | D. high-energy electrons and air |
10. _____ What are the products of the light-dependent reactions?

| | |
|----------------------------------|----------------------------|
| A. chloroplasts and light | C. oxygen and ATP |
| B. proteins and lipids | D. water and sugars |

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11. _____ Where do the light-independent reactions occur?

- A. stroma
- B. thylakoids
- C. chlorophyll
- D. mitochondria

12. Complete the illustration by writing the reactants and products of the light-dependent and light-independent reactions. Also, fill in the energy source that excites the electrons.

