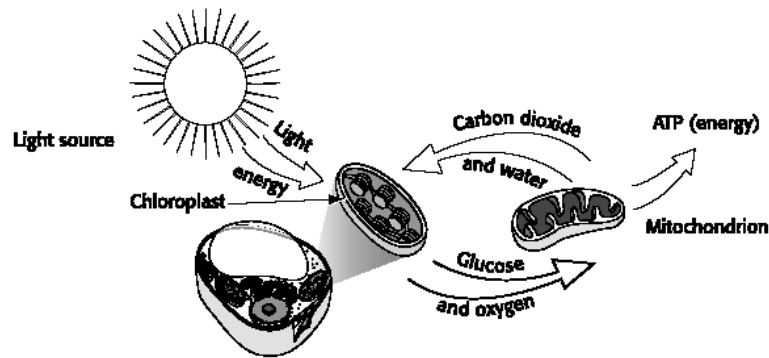


Photosynthesis & Respiration Connection

Name: _____

Period: _____

Use Chapter 5, Section 1 of your textbook to answer the questions below. A ★ means a two word answer.



Use the figure above and Figure 3 on p.150 to answer questions 1, 2, and 3.

- _____ 1. Look at the figure. Which two processes does it show?
- a. photosynthesis and breathing
 - b. breathing and growing
 - c. growing and cellular respiration
 - d. photosynthesis and cellular respiration
- _____ 2. Look at the color coding in Figure 3. Where does the process of cellular respiration take place?
- a. in the mitochondrion
 - b. in the cell membrane
 - c. in the fluids
 - d. in the chloroplast
- _____ 3. Look at the figure. Besides energy (ATP), what else is released during cellular respiration?
- a. carbon dioxide (CO₂) and oxygen (O₂)
 - b. carbon dioxide (CO₂) and glucose (C₆H₁₂O₆)
 - c. carbon dioxide (CO₂) and water (H₂O)

Connection Between Photosynthesis and Respiration (p.151)

4. When cells take in carbon dioxide (CO₂) to make glucose and release oxygen (O₂), it is called _____.
5. When cells use oxygen (O₂) to break down glucose and release carbon dioxide (CO₂), this is _____ ★.

Fermentation (p.151)

6. Muscle cells use fermentation to get energy when they cannot get the gas _____ for cellular respiration.
7. The buildup of _____ causes muscle fatigue & a burning feeling in the muscles. ★
8. Besides occurring in animals, fermentation can also happen in _____ and _____.