

**SECTION**  
**1**

**Reinforcement**

# Photosynthesis and Respiration

**Directions:** Answer the following questions on the lines provided.

1. a. What causes the stomata on leaves to open?

\_\_\_\_\_

b. When are the stomata usually open?

\_\_\_\_\_

c. What happens when stomata open?

\_\_\_\_\_

2. Why do plants need a lot of water?

\_\_\_\_\_

3. Write the chemical equation for photosynthesis. Label the chemical compounds.

4. How do we depend on photosynthesis?

\_\_\_\_\_

\_\_\_\_\_

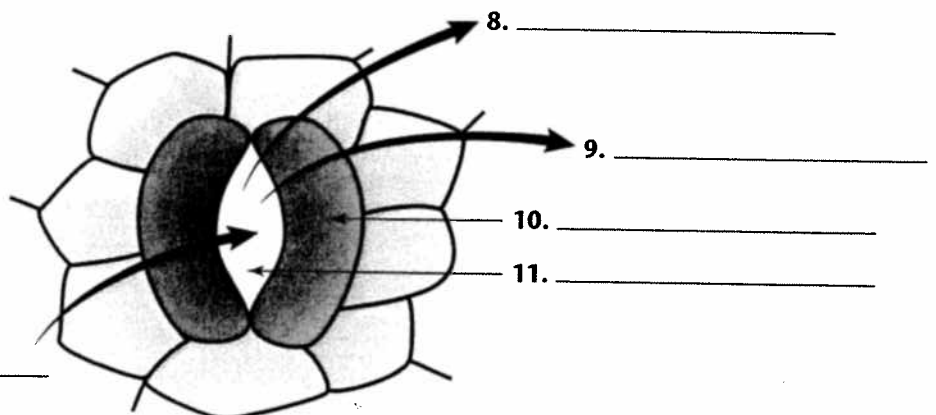
\_\_\_\_\_

5. What is respiration?

\_\_\_\_\_

6. Write the chemical equation for aerobic respiration. Label the chemical compounds.

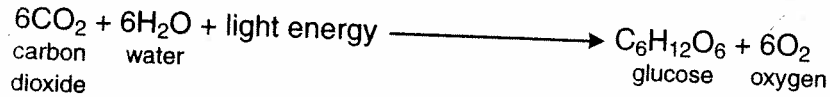
**Directions:** Label the following diagram of an opening in a leaf. Label the arrows to show the movement of water vapor, carbon dioxide, and oxygen. Label the guard cells and the stoma.





## Section 1 ■ Photosynthesis and Respiration

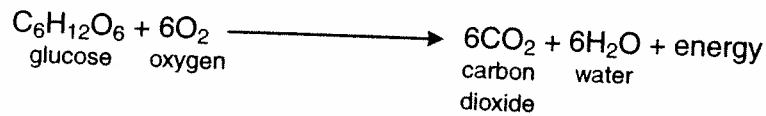
### Photosynthesis



**Directions:** Using the equation above, classify each of the terms below as a <sup>(reactant)</sup> raw material or an end product of photosynthesis.

- \_\_\_\_\_ 1. water
- \_\_\_\_\_ 2. carbon dioxide
- \_\_\_\_\_ 3. glucose
- \_\_\_\_\_ 4. oxygen
- \_\_\_\_\_ 5. light energy

### Aerobic Respiration



**Directions:** Using the equation above, classify each of the terms below as a <sup>(reactant)</sup> raw material or an end product of respiration.

- \_\_\_\_\_ 6. carbon dioxide
- \_\_\_\_\_ 7. oxygen
- \_\_\_\_\_ 8. water
- \_\_\_\_\_ 9. glucose
- \_\_\_\_\_ 10. energy