

# Cell Biology

Name: \_\_\_\_\_

## Photosynthesis Part 1

Period: \_\_\_\_\_

Use Chapter 13, Section 1 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them.

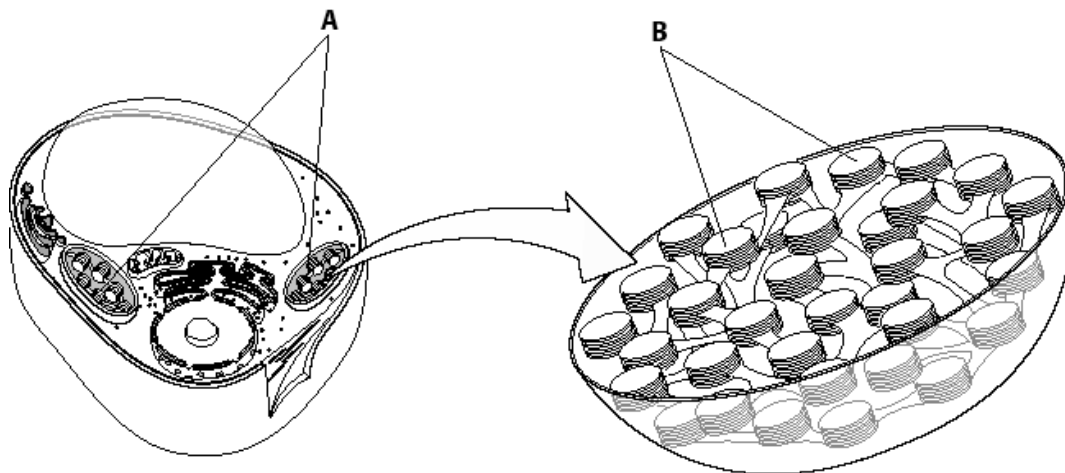
chlorophyll    chloroplasts    glucose    oxygen    photosynthesis

### Section 1: Photosynthesis (p.396)

1. Do plants have lungs? \_\_\_\_\_
- \_\_\_\_\_ 2. Which of the following gases (besides air) is needed by plants?  
a. ozone      b. methane      c. carbon dioxide      d. helium
3. \_\_\_\_\_ is the process used by plants to make their own food.

### Capturing Light Energy (p.396)

4. What plant cell organelles capture sunlight energy for photosynthesis? \_\_\_\_\_
5. The green pigment in plant cells is called \_\_\_\_\_ .



Match the labels to the parts of the diagram above. Write the letter in the space provided.

- \_\_\_\_\_ 6. grana  
\_\_\_\_\_ 7. chloroplasts

### Making Sugar (p.397)

8. During photosynthesis, light energy is used to help make a simple sugar called \_\_\_\_\_ .
9. Plant cells give off \_\_\_\_\_ gas during photosynthesis.

*turn over for more questions*

cellular respiration   energy   leaves   mitochondria   water

**Getting Energy from Sugar (p.397)**

10. What do glucose molecules store? \_\_\_\_\_
11. The energy stored in glucose is released by organelles called \_\_\_\_\_.
12. Mitochondria get energy through the process of \_\_\_\_\_ ,  
during which the mitochondria break down food molecules.
13. Look at Figure 2. Where is sugar made in a plant? \_\_\_\_\_
14. Look at Figure 2. Plants take in \_\_\_\_\_ through their roots to use during  
photosynthesis.