

# 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. Which of the following gases (besides air) is needed by plants?  
a. ozone      b. methane      c. carbon dioxide      d. helium

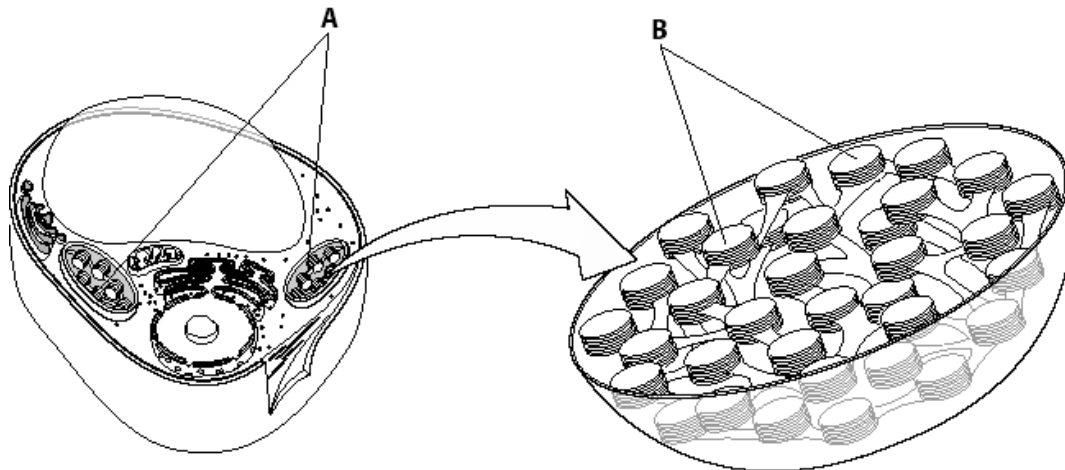
2. \_\_\_\_\_ is the process used by plants to make their own food.

### Capturing Light Energy (p.396)

3. What organelles capture sunlight energy for photosynthesis? \_\_\_\_\_

4. The green pigment in plants is called \_\_\_\_\_ .

\_\_\_\_\_ 5. Which of the following statements about chlorophyll is true?  
a. Chlorophyll reflects chemical energy.  
b. Chlorophyll absorbs chemical energy.  
c. Chlorophyll absorbs green wavelengths of sunlight.  
d. Chlorophyll reflects green wavelengths of sunlight.



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    mitochondria

**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.