

Cell Biology

Name: _____

Photosynthesis Part 1

Period: _____

Use Chapter 13, Section 1 of your textbook to answer the questions below.

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

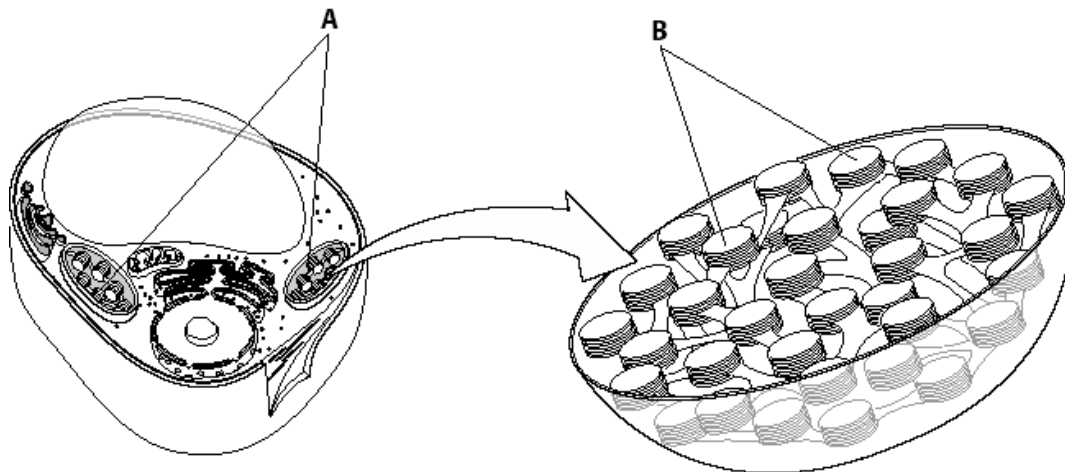
2. _____ is the process used by plants to make their own food.

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

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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.