



## Photosynthesis Quiz

Name: \_\_\_\_\_  
Date: \_\_\_\_\_  
Class: \_\_\_\_\_

**1. In what way does plant nutrition differ from human nutrition? Choose the best answer.**

- a. Plants make their own nutrients; humans must consume theirs.
- b. Plant nutrition consists mainly of protein; human nutrition consists mainly of carbohydrates.
- c. Plants absorb their nutrients from the soil; humans get theirs from food.
- d. Plants cannot make their own food; humans can.

**2. Which of the following do plants gain from sunlight?**

- a. Carbon dioxide
- b. Energy
- c. Sugar
- d. Water

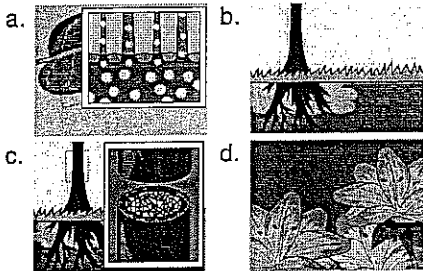
**3. What might happen if plants could not produce glucose?**

- a. They would not be green
- b. They could not grow and function
- c. They could not absorb energy from the sun
- d. They would not have leaves

**4. What is the main function of xylem within a plant?**

- a. It keeps the leaves green
- b. It enables the plant to absorb sunlight
- c. It turns energy into glucose
- d. It transports water and nutrients from the roots to the leaves

**5. Which of the following depicts xylem?**



**6. Which part of the human body is most similar to stomata in plants?**

- a. The heart
- b. The brain
- c. The lungs and airways
- d. The fingers and toes

**7. If you were looking for a plant's chloroplasts, where would you find them?**

- a. In its fruit
- b. In its xylem
- c. In its roots
- d. In its palisade and spongy cells

**8. Chlorophyll is a type of pigment, and so is the melanin in your skin. What is a pigment?**

- a. Something that aids with photosynthesis
- b. Something that helps plants grow
- c. A substance that contains color
- d. Something that helps plants absorb water

**9. Chlorophyll traps energy from sunlight and stores it as what kind of energy?**

- a. Kinetic energy
- b. Heat energy
- c. Color energy
- d. Chemical energy

**10. In photosynthesis, water molecules are split into \_\_\_\_\_ and \_\_\_\_\_ atoms.**

- a. Hydrogen and oxygen
- b. Sulfur and lithium
- c. Carbon and nitrogen
- d. Glucose and fructose