

READING COMPREHENSION WORKSHEET

PHOTOSYNTHESIS AND ENERGY TRANSFORMATION

35+ QUESTIONS

GRADE
9

- 1. Which of the following is a product of photosynthesis?
 - a. Water
 - b. Carbon dioxide
 - c. Glucose
 - d. Oxygen
- 2. How many molecules of oxygen are produced in the photosynthesis?
 - a. Four
 - b. Six
 - c. Two
 - d. Eight
- 3. What type of energy is stored in glucose?
 - a. Light energy
 - b. Heat energy
 - c. Chemical energy
 - d. Electrical energy
- 4. Which part of the plant makes glucose and photosynthesis?
 - a. Root
 - b. Stem
 - c. Leaf
 - d. Flower
- 5. The products of photosynthesis help to reduce carbon gas in the air.
 - a. Oxygen
 - b. Carbon dioxide
 - c. Nitrogen
 - d. Hydrogen
- 6. Which molecule is released as a byproduct of photosynthesis?
 - a. Glucose
 - b. Carbon dioxide
 - c. Oxygen
 - d. Water
- 7. Which does a chemical equation for photosynthesis feature?
 - a. The light energy used to grow
 - b. The inputs and outputs of matter and energy transfer
 - c. The absorption of animals that eat plants
 - d. The way various things look in fall

Name: _____

Photosynthesis and Energy Transformation

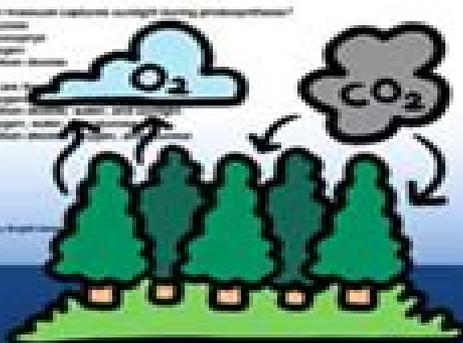
Photosynthesis is a process used by plants to convert light energy into chemical energy that can be stored and used by the plant. This process probably results in the leaves, which absorb light energy. The energy from sunlight is then used to produce carbon dioxide from the air and water from the soil into glucose, a form of sugar. Oxygen is released as a byproduct during this process.

The inputs of photosynthesis are light energy, carbon dioxide, and water. The outputs are glucose and oxygen. Glucose stores energy in its chemical bonds, which plants can use for growth and repair. They generate oxygen as a byproduct of photosynthesis, which is used by animals and other organisms to produce energy through cellular respiration. Plants use an abundance of oxygen, using light energy.

Models of photosynthesis include diagrams showing the flow of energy, molecules, and chemical reactions, and equations representing the transformations. These models help us understand how energy flows from the sun through plants and how the energy moves through organisms that eat plants.

9. Mark the best answer for each question.

1. What is the main purpose of photosynthesis?
 - a. To produce oxygen for animals to breathe
 - b. To capture light energy into stored chemical energy
 - c. To make glucose
 - d. To release carbon dioxide into the air
2. Which molecule captures sunlight during photosynthesis?
 - a. Glucose
 - b. Oxygen
 - c. Carbon dioxide
 - d. Water
3. What are the inputs of photosynthesis?
 - a. Glucose, water, and carbon dioxide
 - b. Carbon dioxide, water, and light energy
 - c. Oxygen, water, and carbon dioxide
 - d. Carbon dioxide, water, and light energy



9. Mark the best answer for each question.

10. Which of the following is a product of photosynthesis?

- a. Water
- b. Carbon dioxide
- c. Glucose
- d. Oxygen

11. How many molecules of oxygen are produced in the photosynthesis?

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- b. Six
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12. What type of energy is stored in glucose?

- a. Light energy
- b. Heat energy
- c. Chemical energy
- d. Electrical energy

13. Which part of the plant makes glucose and photosynthesis?

- a. Root
- b. Stem
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14. The products of photosynthesis help to reduce carbon gas in the air.

- a. Oxygen
- b. Carbon dioxide
- c. Nitrogen
- d. Hydrogen

15. Which molecule is released as a byproduct of photosynthesis?

- a. Glucose
- b. Carbon dioxide
- c. Oxygen
- d. Water

16. Which does a chemical equation for photosynthesis feature?

- a. The light energy used to grow
- b. The inputs and outputs of matter and energy transfer
- c. The absorption of animals that eat plants
- d. The way various things look in fall

ANSWER KEY
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Explore Learning Photosynthesis Answer Key

Jicheng Xie



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