

# 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 that is used  
b. The inputs and outputs of matter and energy transfer  
c. The absorption of photons that are plants  
d. The way various things react to heat

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 evolved in the ocean, where chloroplasts capture sunlight. The energy from sunlight is then converted into glucose, which plants then use for energy. A byproduct of photosynthesis is oxygen, which is released into the atmosphere.

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. The oxygen is released into the atmosphere, where it is used by animals for cellular respiration. The overall equation for photosynthesis is:

$$6\text{CO}_2 + 6\text{H}_2\text{O} + \text{light energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$$

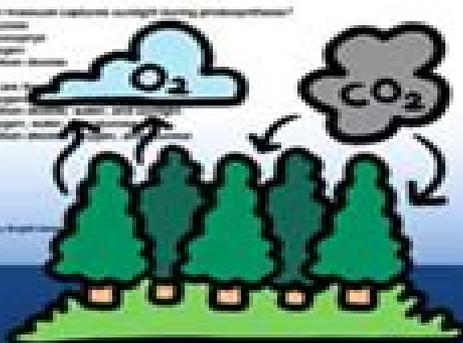
8.1. Which of the following is NOT a product of photosynthesis?  
a. Glucose  
b. Oxygen  
c. Carbon dioxide  
d. Water

8.2. Which of the following is NOT an input of photosynthesis?  
a. Light energy  
b. Carbon dioxide  
c. Water  
d. Chlorophyll

8.3. Which of the following is NOT a function of chlorophyll?  
a. To absorb light energy  
b. To convert light energy into chemical energy  
c. To release oxygen  
d. To release carbon dioxide into the air

8.4. Which of the following is NOT a product of cellular respiration?  
a. Glucose  
b. Oxygen  
c. Carbon dioxide  
d. Water

8.5. Which of the following is NOT an input of cellular respiration?  
a. Glucose  
b. Oxygen  
c. Carbon dioxide  
d. Water



9.1. Which of the following is NOT a product of photosynthesis?  
a. Glucose  
b. Oxygen  
c. Carbon dioxide  
d. Water

9.2. Which of the following is NOT an input of photosynthesis?  
a. Light energy  
b. Carbon dioxide  
c. Water  
d. Chlorophyll

9.3. Which of the following is NOT a function of chlorophyll?  
a. To absorb light energy  
b. To convert light energy into chemical energy  
c. To release oxygen  
d. To release carbon dioxide into the air

9.4. Which of the following is NOT a product of cellular respiration?  
a. Glucose  
b. Oxygen  
c. Carbon dioxide  
d. Water

9.5. Which of the following is NOT an input of cellular respiration?  
a. Glucose  
b. Oxygen  
c. Carbon dioxide  
d. Water

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