

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Photosynthesis Science Worksheet

### TOPIC: PHOTOSYNTHESIS

Instructions: Choose the best answer for each question.

#### 1. What is the main purpose of photosynthesis?

- A) To release oxygen into the atmosphere
  - B) To create food (glucose) for plants
  - C) To absorb carbon dioxide
  - D) To produce chlorophyll
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#### 2. Which organelle in plant cells is responsible for photosynthesis?

- A) Mitochondria
  - B) Nucleus
  - C) Chloroplast
  - D) Ribosome
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#### 3. What is the primary pigment involved in photosynthesis?

- A) Carotene
  - B) Xanthophyll
  - C) Chlorophyll
  - D) Hemoglobin
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#### 4. What are the two main products of photosynthesis?

- A) Glucose and oxygen
  - B) Water and oxygen
  - C) Carbon dioxide and glucose
  - D) Oxygen and ATP
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#### 5. Which of the following are the main reactants (inputs) required for photosynthesis?

- A) Oxygen and glucose
  - B) Carbon dioxide and water
  - C) Nitrogen and glucose
  - D) Sunlight and oxygen
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#### 6. In which part of the plant does most photosynthesis occur?

- A) Roots
  - B) Flowers
  - C) Stems
  - D) Leaves
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#### 7. What is the role of sunlight in photosynthesis?

- A) To provide water for the plant
  - B) To convert oxygen into carbon dioxide
  - C) To break down chlorophyll
  - D) To provide energy for the process
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#### 8. During photosynthesis, where do plants get the carbon dioxide they need?

- A) From the soil
  - B) From the air
  - C) From water
  - D) From other plants
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#### 9. What happens to the oxygen produced during photosynthesis?

- A) It is absorbed by the plant
  - B) It is used to make glucose
  - C) It is released into the atmosphere
  - D) It combines with nitrogen
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#### 10. What is the chemical equation for photosynthesis?

- A)  $H_2O + O_2 \rightarrow \text{Glucose} + CO_2$
- B)  $CO_2 + H_2O + \text{Sunlight} \rightarrow \text{Glucose} + O_2$
- C)  $\text{Glucose} + O_2 \rightarrow CO_2 + H_2O$
- D)  $CO_2 + O_2 \rightarrow \text{Glucose} + H_2O$

***Answer Key:***

1. B
2. C
3. C
4. A
5. B
6. D
7. D
8. B
9. C
10. B