

Photosynthesis: Powering Life on Earth

Biology · Answer Key · 7 Questions

1. What is the main purpose of photosynthesis?

- A) To make food for plants**
- B) To absorb water from the soil
- C) To release carbon dioxide
- D) To decompose dead organisms

2. What are the main ingredients needed for photosynthesis?

- A) Oxygen, glucose, and sunlight
- B) Water, carbon dioxide, and sunlight**
- C) Nitrogen, oxygen, and water
- D) Sugar, oxygen, and minerals

3. What are the two main products of photosynthesis?

- A) Carbon dioxide and water
- B) Oxygen and glucose**
- C) Nitrogen and carbon dioxide
- D) Water and minerals

4. Where does photosynthesis primarily occur in plant cells?

- A) Mitochondria
- B) Nucleus
- C) Chloroplasts**
- D) Cell wall

5. What are the two main layers on the top of the leaf?

- A) Palisade and Spongy Mesophyll
- B) Cuticle and Epidermis**
- C) Vein and Spongy Mesophyll
- D) Chloroplast and Vein

6. What is the name of the cycle that occurs in the light-independent reaction?

- A) Krebs Cycle
- B) Calvin Cycle**
- C) Oxygen Cycle
- D) Water Cycle

7. What happens to water during the light-dependent reaction?

A) It is reduced.

B) It is oxidized.

C) It is synthesized.

D) It is condensed.