

# Photosynthesis Quiz

Biology · Answer Key · 9 Questions

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**1. What is the primary pigment involved in photosynthesis?**

- A) Chlorophyll**
- B) Xanthophyll
- C) Carotene
- D) Anthocyanin

**2. What are the two main stages of photosynthesis?**

- A) Light-dependent and Light-independent reactions**
- B) Krebs Cycle and Electron Transport Chain
- C) Glycolysis and Fermentation
- D) Calvin Cycle and Citric Acid Cycle

**3. What is the main source of energy for photosynthesis?**

- A) Sunlight**
- B) Chemical energy
- C) Heat
- D) Electricity

**4. What gas is absorbed from the atmosphere during photosynthesis?**

- A) Carbon dioxide**
- B) Oxygen
- C) Nitrogen
- D) Hydrogen

**5. What sugar is produced during photosynthesis?**

- A) Glucose**
- B) Fructose
- C) Sucrose
- D) Lactose

**6. Where in the plant cell does photosynthesis occur?**

- A) Chloroplast**
- B) Mitochondria
- C) Nucleus
- D) Vacuole

**7. What is a byproduct of photosynthesis?**

**A) Oxygen**

B) Carbon dioxide

C) Water

D) Glucose

**8. What is the role of water in photosynthesis?**

**A) Provides electrons for the light-dependent reactions**

B) Absorbs sunlight

C) Releases oxygen

D) Provides carbon

**9. What is the name of the cycle that fixes carbon dioxide?**

**A) Calvin Cycle**

B) Krebs Cycle

C) Citric Acid Cycle

D) Electron Transport Chain