

# Photosynthesis: How Plants Make Food

Biology · Answer Key · 21 Questions

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1. What does the prefix 'photo' mean?

- A) Making
- B) Light**
- C) Energy
- D) Water

2. What does the suffix 'synthesis' mean?

- A) Making**
- B) Light
- C) Energy
- D) Water

3. What are the two main reactants used by plants in photosynthesis?

- A) Glucose and oxygen
- B) Sunlight and chlorophyll
- C) Water and carbon dioxide**
- D) Soil and air

4. What is the source of energy for photosynthesis?

- A) Water
- B) Carbon dioxide
- C) Sunlight**
- D) Chlorophyll

5. What green pigment captures the energy in sunlight?

- A) Glucose
- B) Oxygen
- C) Water
- D) Chlorophyll**

6. Where is chlorophyll found in plants?

- A) Roots
- B) Stems
- C) Leaves**
- D) Flowers

**7. What are the two new substances made during photosynthesis?**

- A) Water and carbon dioxide
- B) Sunlight and energy
- C) Glucose and oxygen**
- D) Chlorophyll and soil

**8. What is the word equation for photosynthesis?**

- A) Glucose + oxygen -> water + carbon dioxide
- B) Water + carbon dioxide -> glucose + oxygen**
- C) Sunlight + chlorophyll -> glucose + water
- D) Oxygen + water -> carbon dioxide + glucose

**9. Where does photosynthesis primarily happen in a plant?**

- A) Roots
- B) Flowers
- C) Leaves**
- D) Stems

**10. Why is photosynthesis important for most other organisms?**

- A) It produces carbon dioxide
- B) It provides energy in the form of chemical energy in nutrients**
- C) It absorbs sunlight
- D) It releases water vapor

**11. What do carbohydrates contain that was originally in sunlight?**

- A) Water
- B) Carbon dioxide
- C) Energy**
- D) Oxygen

**12. According to food chains, where does most of the energy in all the food in the world come from?**

- A) Animals
- B) Fungi
- C) Plants**
- D) Bacteria

**13. What is the second major reason photosynthesis is important?**

- A) It produces water
- B) It provides oxygen for the Earth's atmosphere**
- C) It creates soil
- D) It absorbs carbon dioxide

**14. What do animals and plants need oxygen for?**

A) Photosynthesis

**B) Respiration**

C) Digestion

D) Growth

**15. Oxygen is a waste product of which process?**

A) Respiration

B) Digestion

**C) Photosynthesis**

D) Germination

**16. Approximately what percentage of the air around us is oxygen?**

A) 5%

B) 10%

**C) 20%**

D) 50%

**17. When the Earth was first formed, what was almost absent in its atmosphere?**

A) Carbon dioxide

B) Water vapor

C) Nitrogen

**D) Oxygen**

**18. Scientists think oxygen first began to collect in the air when what began to photosynthesize?**

A) Plants

B) Animals

**C) Bacteria**

D) Fungi

**19. If photosynthesis had never begun on Earth, what would have been unable to live here?**

A) Plants

B) Bacteria

**C) Animals**

D) Fungi

**20. Explain how a lizard eating a grasshopper relies on photosynthesis for energy.**

A) The lizard directly eats plants for energy.

**B) The grasshopper eats plants which contain energy captured by photosynthesis, and the lizard eats the grasshopper.**

C) The lizard uses sunlight to make its own food.

D) Photosynthesis produces oxygen which the lizard breathes to get energy.

**21. Explain one other reason (apart from food) why a lizard would not be able to survive if there were no plants on Earth.**

A) There would be no soil for the lizard to burrow in.

**B) There would be no oxygen for the lizard to breathe.**

C) The temperature would be too high.

D) There would be no water available.