

Photosynthesis: How Plants Make Food

Biology · Practice Test · 21 Questions

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.