

1. One of the principal chemical compounds that living things use for energy is
 - A DNA
 - B ATP
 - C Water
 - D Oxygen

2. In addition to light and chlorophyll, photosynthesis requires
 - A water and oxygen
 - B water and carbon dioxide
 - C oxygen and carbon dioxide
 - D water and glucose

3. You are able to live on Earth due to this waste product of photosynthesis:
 - A carbon dioxide
 - B oxygen
 - C water
 - D ATP

4. The products of photosynthesis are
 - A glucose and oxygen
 - B carbon dioxide and water
 - C carbon dioxide and oxygen
 - D glucose and carbon dioxide

5. Which one of the following is true?
 - A Photosynthesis occurs in mitochondria and cellular respiration occurs in chloroplasts.
 - B Photosynthesis occurs in mitochondria and in chloroplasts.
 - C Photosynthesis occurs in chloroplasts and cellular respiration occurs in mitochondria.
 - D Cellular respiration occurs in mitochondria and in chloroplasts.

6. Which of the following are products of cellular respiration?

- A oxygen and glucose
- B oxygen and energy to make ATP
- C glucose and carbon dioxide
- D energy to make ATP and carbon dioxide

7. Which one of the following statements is false? Cellular respiration

- A produces carbon dioxide
- B is a single chemical reaction with just one step.
- C consumes glucose.
- D produces water

8. In photosynthesis, light energy is captured by the:

- A mitochondria
- B flowers
- C Chlorophyll
- D stem

9. Cellular respiration is called an aerobic process because it requires

- A light
- B exercise
- C water
- D oxygen

10. Which of the following affects the rate of photosynthesis

- A water
- B temperature
- C light intensity
- D all of the above

11. Which type of energy transformation occurs in photosynthesis?

- A heat to electrical
- B light to chemical
- C mechanical to electrical
- D chemical to mechanical

12. Which could be used to monitor the rate of photosynthesis in a plant?

- A oxygen production
- B water production
- C hydrogen production
- D carbon dioxide production

13. Aerobic cellular respiration requires an adequate supply of

- A carbon dioxide.
- B oxygen.
- C ethyl alcohol.
- D starch.

14. Which of these processes is carried out the same way in both plants and animals?

- A cellular respiration
- B asexual reproduction
- C circulation of body fluids
- D excretion of metabolic waste

15. The process of photosynthesis and respiration can be thought of as a cycle because

- A one is used only by plants the other is used only by animals
- B both give off oxygen to be used by animals
- C the products of one are used as the reactants of the other

16. If you were measuring carbon dioxide levels in a terrarium during photosynthesis, you would expect to see the levels

- A increase
- B decrease
- C stay the same

17. If carbon dioxide levels were being monitored inside a terrarium, you would expect to see an increase in CO₂ levels when the plants were in

- A darkness
- B light
- C Alaska

18. Respiration can occur in a plant

- A in the light
- B in the dark
- C when oxygen is present
- D all of the above

19. The energy for photosynthesis comes mostly from what color of light?

- A red and green
- B blue and red
- C blue and yellow
- D green and blue



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20. Which graph best represents the effect of temperature on the rate of photosynthesis?

- A A
- B B
- C C
- D D



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21. Which of these graphs represents the effect of temperature on the rate of photosynthesis?

- A A
- B B
- C C
- D D



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