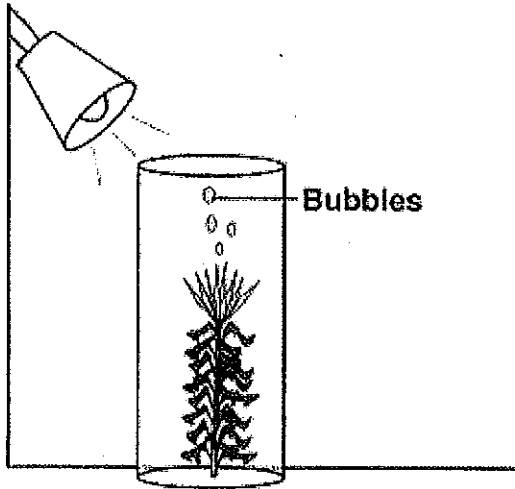


1. Mr. Turner cut the stem of a water plant. He put the plant in a cup full of water under a light.



The students in Mr. Turner's class observed bubbles coming out of the stem. What are the bubbles being released by the plant?

- A. carbon dioxide
- B. helium
- C. hydrogen
- D. oxygen
2. In photosynthesis, plants use chlorophyll to produce
- A. sugar.
- B. water.
- C. energy.
- D. carbon dioxide.
3. Carbon dioxide is removed from Earth's atmosphere due to
- A. respiration of animals.
- B. decay of animal matter.
- C. plant photosynthesis.
- D. burning of fossil fuels.
4. In which part of a tree does photosynthesis most likely take place?
- A. bark
- B. roots
- C. trunk
- D. leaves
5. People take in and release gases from the air when they breathe. Which exhaled gas is a waste product of respiration?
- A. oxygen
- B. helium
- C. hydrogen
- D. carbon dioxide

6. Which action would increase the amount of oxygen in a fish tank?

- A. adding more fish
- B. adding more plants
- C. placing food in the tank
- D. placing a water heater in the tank

7. Which part of the plant has small openings called stomata for gas exchange with the environment?

- A. roots
- B. bark
- C. fruit
- D. leaves

8. What is the primary function of leaves?

- A. storing food
- B. storing water and minerals
- C. collecting light for photosynthesis
- D. transporting food and water

9. During photosynthesis, plants taking in carbon dioxide from the air release which gas?

- A. carbon monoxide
- B. nitrogen
- C. oxygen
- D. methane

10. During cellular respiration, oxygen is used and _____
are produced.

- A. nitrogen and water
- B. glucose and carbon dioxide
- C. carbon dioxide and water
- D. nitrogen and carbon dioxide

11. Which of the following is a flowering plant?

- A. moss
- B. fern
- C. pine tree
- D. rosebush

12. What part of the flowering plant is the male part that produces pollen?

- A. anther
- B. stamen

C. pistil

D. petal

13. Which description below best describes fertilization of flowering plants?

- A. occurs when the pistil produces pollen
- B. occurs when a bee transports pollen to another flower
- C. occurs when pollen of one flower joins with the ovules of another flower
- D. occurs when the plant creates it's own food

14. How does the anther help with the reproduction of a flowering plant?

- A. it develops into a fruit after fertilization
- B. it moves pollen to the root of the plant
- C. it grows the seeds for the plant
- D. it produces and stores pollen

15. What process occurs when pollen is transferred from the anthers of one flower to the stigma of another flower?

- A. illumination
- B. fertilization
- C. pollination
- D. photosynthesis

16. Pollination occurs in several ways. How is pollen transferred?

- A. A moth is feeding on a flower and gets pollen stuck on it. It then moves to another flower to feed and transfers the pollen to that plant.
- B. The wind picks up pollen from one plant and moves it to another.
- C. Rain water containing pollen from one flower is transferred to another plant.
- D. all of the above

17. What happens during photosynthesis?

- A. the cell uses oxygen to make food
- B. the cell uses the energy in sunlight to make food
- C. the cell uses glucose to make oxygen
- D. the cell uses carbon dioxide to make food

18. Photosynthesis needs the products of _____ to occur.

- A. stomata
- B. pollination
- C. respiration
- D. reproduction

19. What is transpiration?

- A. the loss of water from a plant through its stomata
- B. the movement of sugars through a plant
- C. a part of a plant
- D. when water evaporates from a plant

20. How is transpiration controlled in the leaves of a plant?

- A. through the roots
- B. through the petals
- C. through the stem
- D. through the stomata