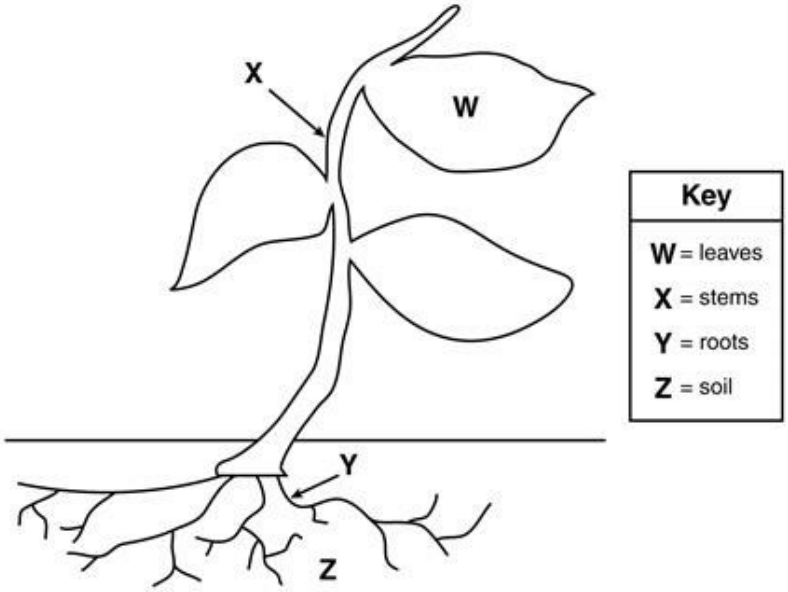
TEST NAME: **Plants**
TEST ID: **194753**
GRADE: **06**
SUBJECT: **Life and Physical Sciences**
TEST CATEGORY: **School Assessment**

Student: _____

Class: _____

Date: _____

1. **A plant is shown.**



Which of these best demonstrates the path water takes through a plant?

A. $W \rightarrow X \rightarrow Y \rightarrow Z$
B. $X \rightarrow W \rightarrow Y \rightarrow Z$
C. $Z \rightarrow Y \rightarrow X \rightarrow W$
D. $Z \rightarrow Y \rightarrow W \rightarrow X$

2. **Some plants grow in an area where there are many leaf-eating animals. Having which feature would best help the plants survive around the leaf-eating animals?**

A. large fruits
B. long stems
C. sharp thorns
D. colorful flowers

3. **In multicellular organisms, different structures have different functions. Which function is carried out in the leaves of a plant?**

A. absorbing food
B. producing flowers
C. absorbing light
D. making seeds

4. **Vascular plants have tissue called *xylem*. Which of these is transported by the xylem?**

A. food made by the plant
B. water needed by the plant
C. pollen for plant reproduction
D. carbon dioxide for photosynthesis

5. **In flowering plants, what structure containing DNA is transported from one plant to another?**

   A. nectar
   B. chlorophyll
   C. glucose
   D. pollen

6. **Oak trees contain xylem and phloem. Which statement best states a similarity and a difference for these parts of the oak tree?**

   A. Both store water, but only phloem also has nutrients.
   B. Both transport matter, but xylem transports downward and phloem transports upward.
   C. Both carry water, but xylem has sugar and phloem has waste.
   D. Both transport matter, but xylem transports upward and phloem transports downward.

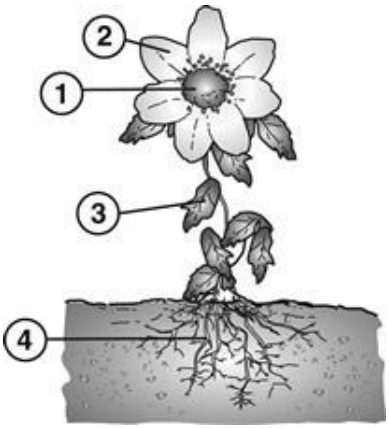
7. **How are the stem of a tree and the stem of a flower most similar?**

   A. Both are soft.
   B. Both have thorns.
   C. Both support the plant.
   D. Both have woody bark.

8. **Which of these correctly identifies the way materials are transported in a plant?**

   A. Xylem carries water from the roots to the leaves.
   B. Phloem carries minerals from the roots to the leaves.
   C. Xylem carries sugars from the flowers to the stems.
   D. Phloem carries water from the flowers to the stems.

9. **June grew flowering plants in the school garden.**



What part of this plant takes in carbon dioxide?

   A. 1
   B. 2
   C. 3
   D. 4

10. **Plants that are different from each another may have similar structures. Which structure do all plants have in common?**

A. flowers
B. fruit
C. roots
D. trunks

11. **Plants that have stems that store water and no leaves would most likely live in a**

A. pine forest.
B. grassland.
C. desert.
D. rainforest.

12. **A prickly pear cactus has thick stems that hold water.**

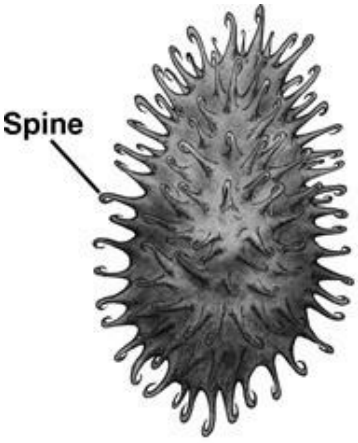
How does a thick stem most likely help a prickly pear cactus?

A. It helps the cactus survive a flood.
B. It keeps the cactus alive in low sunlight.
C. It keeps the cactus from being eaten by insects.
D. It helps the cactus live a long time between rainstorms.

13. **Why does a plant's transport of sugar differ from its transport of water?**

A. Sugar is made in a plant's stem, while water is taken in through a plant's leaves.
B. Sugar is made in a plant's roots, while water is taken in through a plant's stem.
C. Sugar is made in a plant's leaves, while water is taken in through a plant's stem.
D. Sugar is made in a plant's leaves, while water is taken in through a plant's roots.

14. **A cocklebur seed has a hook-like adaptation called a spine.**

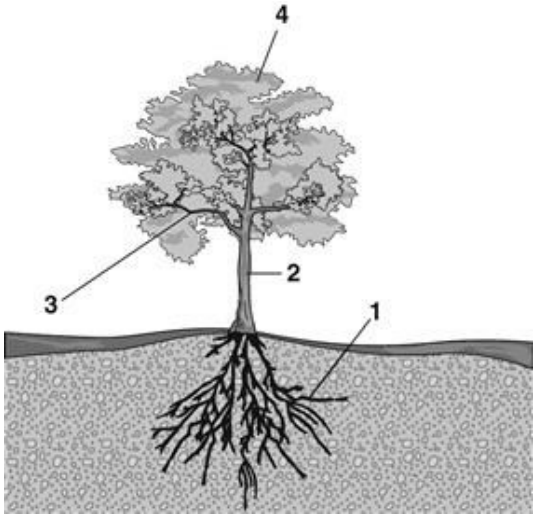


Cocklebur Seed

When an animal walks by a cocklebur plant, the spines on the seed can attach the seed to the animal's fur. Which statement best describes how the animal helps the plant?

A. The seed is moved to a new location to sprout.
B. The seed is consumed by the animal.
C. The plant receives more energy.
D. The plant needs less water.

15. **Enrique studied how trees survive and grow.**



Which part of a tree absorbs the sunlight that helps it make its own food?

A. 1
B. 2
C. 3
D. 4

16. **Animals and plants need oxygen to live. Oxygen is released in photosynthesis. Which cycle includes photosynthesis?**

A. the carbon cycle
B. the nitrogen cycle
C. the water cycle
D. the rock cycle

17. **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

18. **In which part of a tree does photosynthesis most likely take place?**

A. bark
B. roots
C. trunk
D. leaves

19. **People take in and release gases from the air when they breathe. Which gas is removed from the body in the largest amount as waste when a person exhales?**

A. oxygen
B. helium
C. hydrogen
D. carbon dioxide

20. **In photosynthesis, plants use chlorophyll to produce**

A. sugar.
B. water.
C. energy.
D. carbon dioxide.

21. **How are plant cells different from animal cells?**

A. Only plant cells can grow.
B. Only animal cells can reproduce.
C. Only animal cells can store energy.
D. Only plant cells can perform photosynthesis.

22. **Tamara planted two plants in identical pots. She covered one plant with a black bucket and left one plant uncovered. Tamara thinks the covered plant will die. Why would covering this plant with a dark bucket most likely cause it to die?**

A. because the plant needs a lot of room to grow
B. because the plant needs sunlight for photosynthesis
C. because the bucket keeps the plant from getting enough oxygen
D. because the bucket keeps the plant from absorbing water through the roots

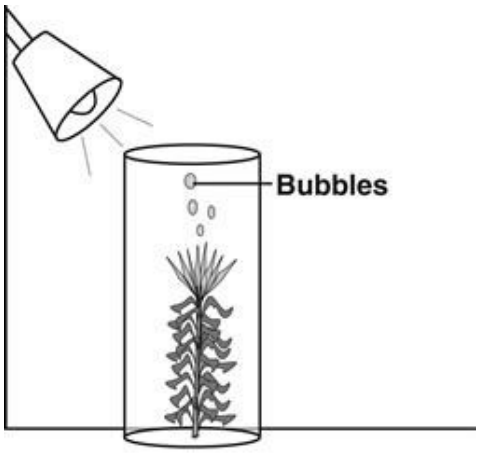
23. **Carbon dioxide is removed from Earth's atmosphere due to**

A. respiration of animals.
B. decay of animal matter.
C. plant photosynthesis.
D. burning of fossil fuels.

24. **In the carbon cycle, carbon is transferred between the atmosphere and**

A. living organisms.
B. ocean sediments.
C. reflected sunlight.
D. minerals in the soil.

25. **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