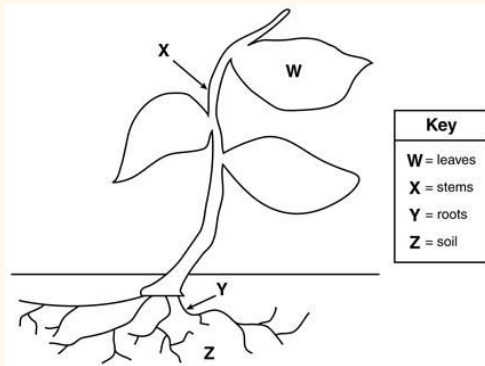


6TH GRADE

Science

Study Guide for Structure and Function of Living Organisms Unit Test

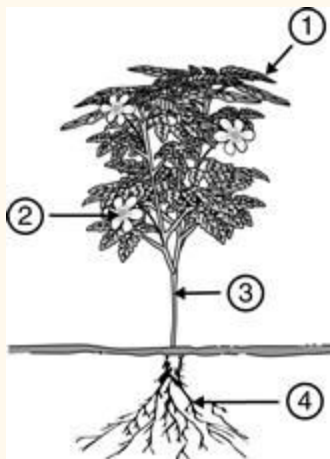
1.



What demonstrates the best path of water through a plant?

2. Explain how carbon dioxide (CO₂) is removed from the atmosphere.

3.

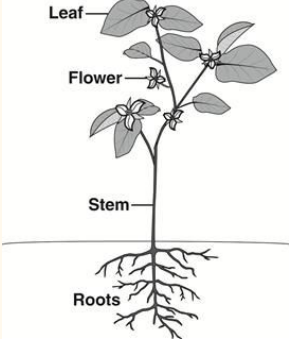


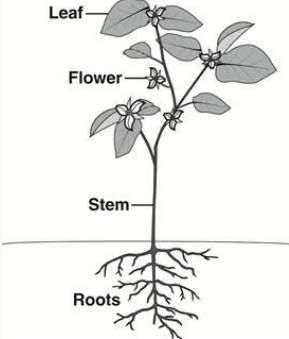
What does the plant absorb at point 1?

What does the plant absorb at point 4?

4. What part of the part absorbs minerals and water? _____

5. A seed of a plant sticks to the fur of an animal as it walks by. How has the animal MOST likely helped the plant? _____

6.  What is the main function of the stem of a plant?



7. Which is a major difference between the life cycles of different types of plants?

8. In which way are sugars usually transported throughout a pine tree?

9. What part of a plant collects MOST of the sunlight that is needed to make food?

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

11. The shape of plants' leaves that survive well in a rainy climate are MOST often

_____ and _____.

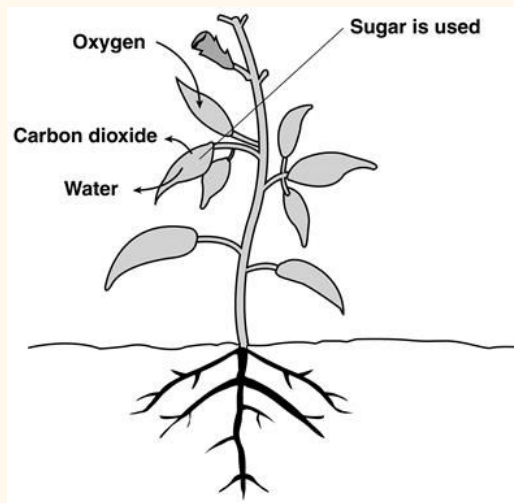
12. Explain how plant cells are different from animal cells.

13. How is xylem similar to phloem in a plant?

14. What are the reactants needed for producers to make their own food?

15. Explain the role flowers play in the survival of plants.
16. People take in and release gases from the air when they breathe. Which exhaled gas is a waste product of respiration? _____
17. In photosynthesis, plants use chlorophyll to produce _____.
18. If you had a fish tank, how would you increase the amount of oxygen?

19.

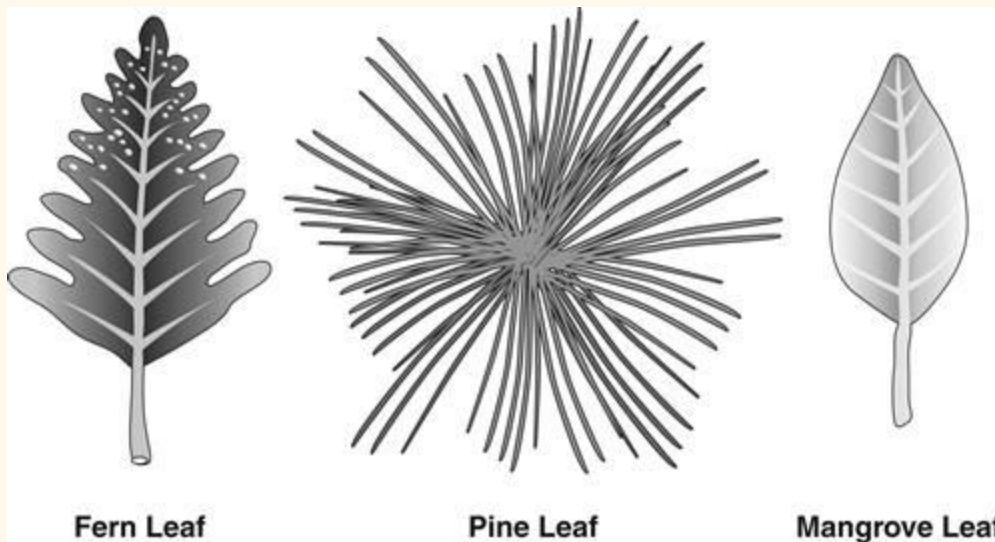


Is this diagram showing photosynthesis or cellular respiration? How do you know?

20. In the carbon cycle, carbon is transferred between the atmosphere and _____.
21. _____ and _____ are produced when a plant breaks down sugar to release energy.
22. What role do male and female parts play on a flowering plant?
23. Beneath the outer layer of tree bark is a layer of live tissue. The cells of this live tissue contain chloroplasts. The bark also contains structures that allow gas exchange with the environment. These characteristics allow the tree bark to perform photosynthesis. Tree bark photosynthesis occurs mostly in early spring and late fall, or in times of drought or disease. What is the MOST likely reason bark photosynthesis is higher during these conditions?

24. Plants that have stems that store water and no leaves would MOST likely live in where? _____
25. Explain what chlorophyll is and how does it help a plant.
26. Explain why does a plant's transport of sugar differ from its transport of water.
27. How do flowers assist in the survival of the plant?
28. Drought and fire are common during the hot summers in a grassland. What adaptation would MOST likely give a grassland plant an advantage for survival during a hot summer?

29.



Although produced by different trees, what do these leaves have in common?