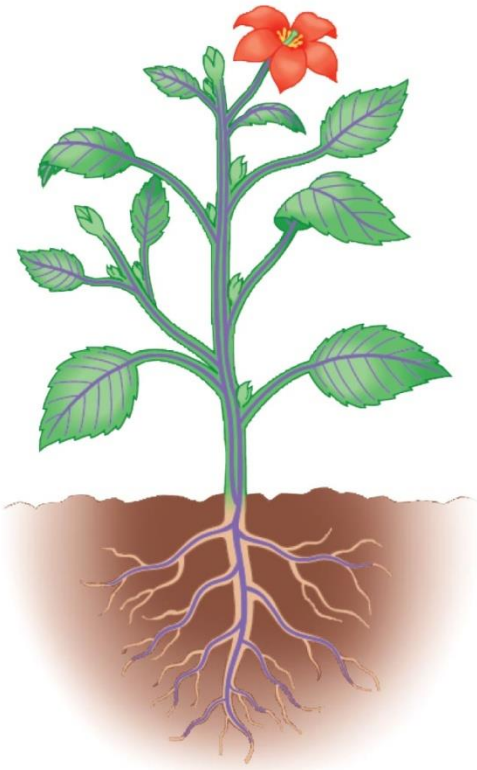


# Ch35/36 Review Sheet



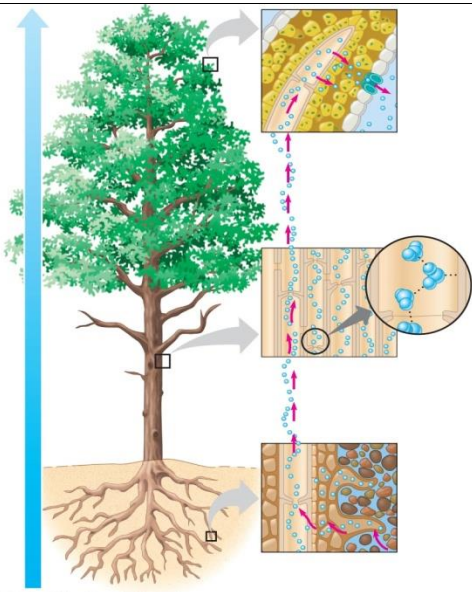
1. Label the root and shoot system of the plant. Then label one axial and axially bud.
2. Explain the functions of the 3 major plant organs.
  - a. Roots –
  - b. Stem –
  - c. Leaf -

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3. In the figure, label the following: palisade mesophyll, spongy mesophyll, and guard cells.
4. What do the guard cells control?
5. What is the purpose of the cuticle on a leaf?
6. Where would the stomata be located on a water lily plant?

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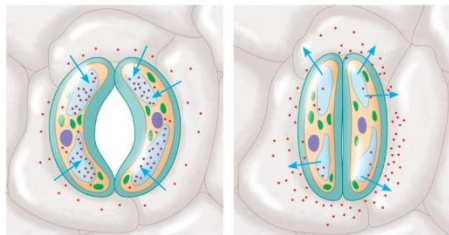
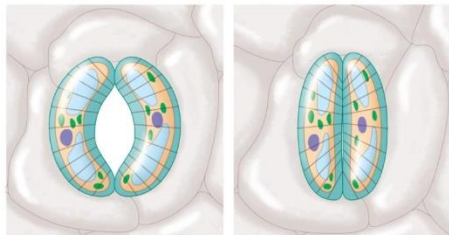
7. Explain how the following processes help water move up the tree.

a. Hydrogen bonds:

b. Water potential:

c. Transpiration:

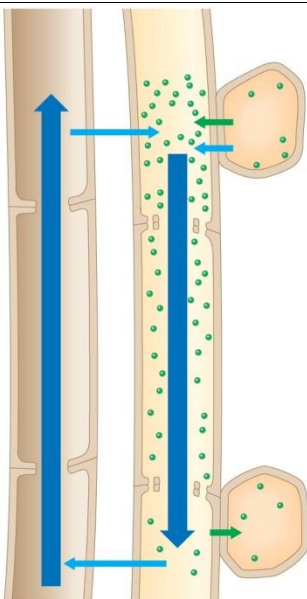
8. Water moves using \_\_\_\_\_ pressure.



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9. In the first set of pictures, label which side has turgid guard cells and which side has flaccid guard cells.

10. What is the role of potassium in stomata opening and closing?



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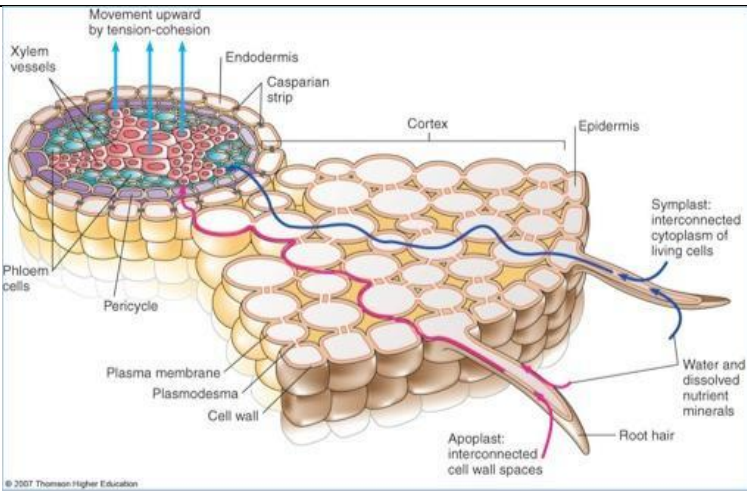
11. Show the movement of water and sugar in the figure.

12. Label the sugar source and the sugar sink.

13. Sugar is moved by \_\_\_\_\_ pressure. Why is it considered to be this type of pressure?

14. What is the Casparian strip?

15. Differentiate between apoplastic and symplastic routes.



16. Explain the steps of water loss from plant leaves. Include properties of water, water potential differences, root pressure, and stomata opening.

