

# Plant tissues, organs and systems recall questions

1. What two plant parts is meristem tissue found?
2. Sketch a leaf cross section and label the following tissues:  
Epidermal    Palisade mesophyll    Spongy mesophyll  
Xylem and phloem    Guard cells    (and the stomata)
3. What four factors can increase the rate of transpiration?
4. What three plant parts form an organ system for transporting substances around the plant?
5. What two substances do root hair cells take into a plant?
6. What tissue transports water and mineral ions from roots to leaves?
7. When do stomata close?
8. By which two processes does transpiration occur?
9. What does phloem transport from leaves to the rest of the plant?
10. What word describes this process?

# Plant tissues, organs and systems recall answers

1. Shoot and root tips
2. Next slide
3. Higher temperature, faster air movement, lower humidity, higher light intensity
4. Roots, stem and leaves
5. Water and mineral ions
6. Water – xylem by the transpiration stream. Xylem are a hollow tube of dead cells.
7. When the guard cells are lacking water.
8. Evaporation from the cells to the air space. Diffusion from the air space through the stomata to the outside of the leaf.
9. Glucose and nutrients by translocation. Phloem are live cells with perforated end plates.
10. Translocation.

