

# Plant Transport Systems: Xylem and Phloem

Biology · Practice Test · 11 Questions

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**1. What is the process called when water moves upward through narrow tubes in plants?**

- A) Transpiration
- B) Capillary action
- C) Photosynthesis
- D) Diffusion

**2. What do water molecules do when they stick to each other?**

- A) Adhesion
- B) Cohesion
- C) Evaporation
- D) Absorption

**3. What is the term for water molecules sticking to xylem walls?**

- A) Adhesion
- B) Cohesion
- C) Condensation
- D) Gravity

**4. What does the xylem primarily transport?**

- A) Sugar and food
- B) Water and dissolved minerals
- C) Oxygen
- D) Carbon dioxide

**5. In which direction does xylem transport substances?**

- A) Downward only
- B) Upward only
- C) Upward and downward
- D) Sideways only

**6. Which tissue is mostly made of dead, thick-walled cells?**

- A) Phloem
- B) Xylem
- C) Epidermis
- D) Root hair

**7. What does the phloem transport?**

- A) Water
- B) Minerals
- C) Food produced by photosynthesis
- D) Soil nutrients

**8. Which tissue is made of living cells and has thin walls?**

- A) Xylem
- B) Phloem
- C) Bark
- D) Heartwood

**9. In which directions can phloem transport materials?**

- A) Upward only
- B) Downward only
- C) Upward and downward
- D) None of the above

**10. What is the loss of water vapor from plant leaves called?**

- A) Transpiration
- B) Respiration
- C) Photosynthesis
- D) Absorption

**11. Besides transporting water and minerals, what else does xylem provide?**

- A) Energy
- B) Structural support
- C) Food storage
- D) Oxygen production