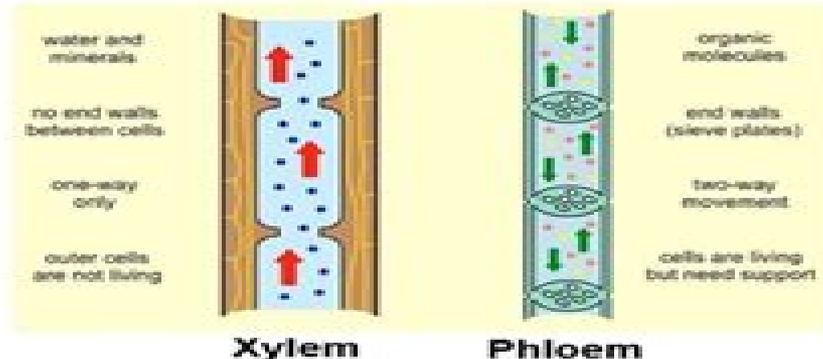


# Chapter 36 - Plant Transport

Xylem and Phloem are vascular tissues that facilitate the transport of materials between the roots and shoots of plants.



There are two major transport compartments through plants: the apoplast and the symplast

- **Apoplast** → everything external to the plasma membrane of living cells
  - Includes: cell walls, extracellular spaces, and the interior of dead cells
    - Pathway outside of the living cells
- **Symplast** → the cytosol of all the living cells in plant as well as the plasmodesmata (interconnecting channels)
  - Pathway inside the living cells
- **Transmembrane routes** → via the water transport
  - Pathway inside and outside the living cells

3 different routes of transport

- **Apoplastic route** → water and solutes move outside of the living cells
- **Symplastic route** → water and solutes move inside of the living cells
- **Transmembrane route** → water and solutes move outside AND inside of the living cells

The apoplast in plant tissues may include which of the following?

Transport in the plant body occurs by 2 mechanisms

- Short-distance diffusion or active transport
- Long-distance

# Chapter 36 Plant Transport Study Guide Answers

**Padhraic Smyth**



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