

## PLNT 1213 Note outline

### Transpiration and Translocation

Chapter 8

Objectives:

Understand the movement of water and sugars in plants

Describe the process of translocation

Describe the process of transpiration

### Transport overview:

The vascular system

Xylem cells transport

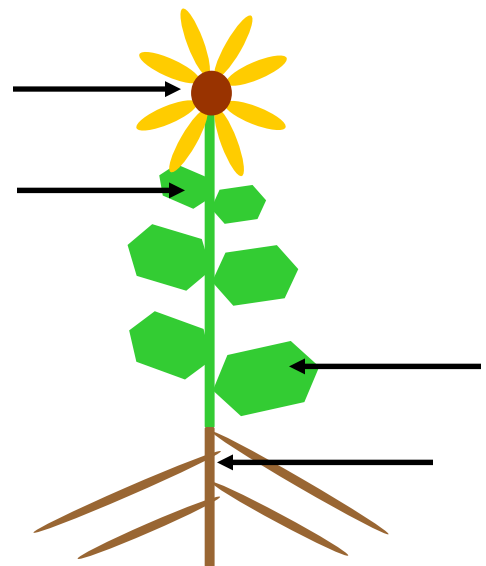
Phloem cells transport

### Translocation

Phloem sap

Source

Sink



# Transpiration

Driven by differences in water potential

Facilitated by:

- 1.
- 2.
- 3.

Stomata

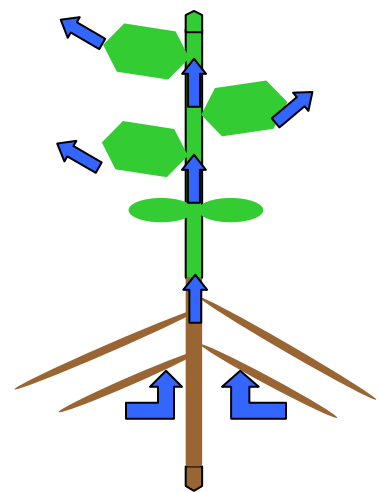
1. Water loss through the stomata

2. Hydrogen bonding

Adhesion

Cohesion

More negative water potential



### 3. Root pressure