## The Leaves

- Functions:
  - Photosynthesis CO2 + H2O (with sunlight) -> CHO (starch) + O2 1.
    - Green color in stem indicates that chlorophyll is present, possible photosynthesis
    - Sunlight electron will be displaced then excites another electron
  - 2. Respiration CHO + O2 (from atmosphere through stomata or lenticel) -> CO2
    - Addition of oxygen
    - Young stem (green)
      - Photosynthesis & respiration can occur because chlorophyll in chloroplast (inside stomata) is present
    - Old stem (bark)
      - Lenticels are present (note: leaves don't have lenticels)
    - Periderm (note: found only in stem)
      - Lenticels facilitate gas exchange but photosynthesis doesn't occur because stem is not green anymore, so chlorophyll is no longer present
      - The outer suberized layer that protects underlying tissues
      - Tissues consisting the periderm: (review)
        - Phellogen (cork cambium)
        - Phellem (cork)
        - Phelloderm
    - Photosynthesis can occur in
      - Leaves
      - 0 Young stem
    - Lenticels
- to to Casts present, they disintegrated Only contain oxygen because th
  - Only carbon dioxide ent
  - Respiration is a two w
    - Inhalation

Carbonic

Release of water which passes through stomata by water vapor

\*Stomata – entry of O2 and CO2

- release of water
- Release of water through lenticel by water vapor
- Guttation
  - Water is exuded by hydathode (modified pore)
  - Occurs in leaf margin and leaf tip

## The Flower

- Importance: Reproduction
- Fruit ripened ovary
- Location or position of ovary
  - Hypogenous below
  - Epigenous above
  - Perigynous same level
- Parts of a flower:
  - Calyx composed of sepals (outer whorl)
  - Corolla composed of petals (inner whorl) 0
  - Androecium of stamens (male reproductive part) 0
  - Gynoecium composed of carpels (female reproductive part)



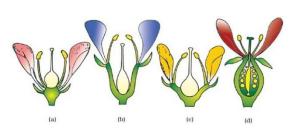


Figure 13. Position of floral parts on thalamus : (a) Hypogynous (b) and (c) Perigynous (d) Epigynous