

# AP Biology Note

Stam: Andros

2023

Some of the characteristics of the plant are  
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 hair. / Coor tse also

## Leaves

1. **Microscopic structure of leaves**  
 - **Stomata**  
 - **Guard cells**

- **Upper epidermis** - single layer of cells
- **Palisade mesophyll** - columnar cells
- **Spongy mesophyll** - irregular cells with air spaces
- **Stomata** - openings for gas exchange
- **Lower epidermis** - single layer of cells
- **Guard cells** - control the opening and closing of stomata
- **Subsidiary cells** - surround guard cells
- **Cuticle** - waxy layer on the surface of the leaf
- **Chloroplasts** - organelles that perform photosynthesis
- **Vascular bundles** - contain xylem and phloem
- **Stoma** - the opening of a stoma
- **Guard cell** - one of the two cells that surround a stoma
- **Subsidiary cell** - one of the cells that surround a guard cell
- **Palisade cell** - one of the cells in the palisade mesophyll
- **Spongy cell** - one of the cells in the spongy mesophyll
- **Epidermal cell** - one of the cells in the epidermis
- **Cuticle** - a waxy layer on the surface of the leaf
- **Chloroplast** - an organelle that performs photosynthesis
- **Xylem** - the tissue that transports water and minerals
- **Phloem** - the tissue that transports organic nutrients
- **Stoma** - the opening of a stoma
- **Guard cell** - one of the two cells that surround a stoma
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- **Spongy cell** - one of the cells in the spongy mesophyll
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- **Xylem** - the tissue that transports water and minerals
- **Phloem** - the tissue that transports organic nutrients



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**Didier Musso**



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