

# LEAF STRUCTURE & PHOTOSYNTHESIS

Educational Reference Chart



## Anatomy Key

- 1. Waxy Cuticle:** Prevents water loss.
- 2. Palisade Mesophyll:** Primary site of photosynthesis.
- 3. Spongy Mesophyll:** Allows for gas exchange.
- 4. Stomata:** Pores for  $\text{CO}_2$  and  $\text{O}_2$  entry/exit.

## The Process

**Light-Dependent:** Occurs in the thylakoid membranes; produces ATP and NADPH.

**Calvin Cycle:** Occurs in the stroma; converts  $\text{CO}_2$  into glucose.

**Chlorophyll:** Pigment that absorbs light energy.

## Notes / Observations

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