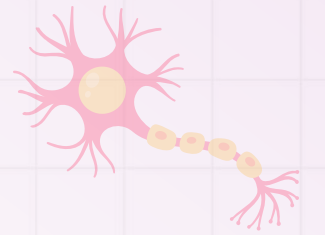


# Plant Physiology & Morphology

- **Plant morphology** studies external form and structure of plants.
- **Herbs** have soft, green and non-woody stems.
- **Shrubs** are medium-sized woody plants with branches from the base.
- **Trees** have a thick woody trunk.
- **Adventitious roots** arise from parts other than radicle.
- **Tap root system** is common in **dicots**.
- Sweet potato is a **tuberous adventitious root**.
- Potato is a **modified stem**.
- Onion is a **bulb**.
- The “eye” of potato indicates **stem modification**.
- The main function of green leaf is **photosynthesis**.
- The **thick vein** in the middle of a leaf is called midrib.
- Pitcher in pitcher plant is a **modified leaf**.
- **Fruit** is the matured **ovary** of a flower.
- **Ovules** become **seeds** after fertilization.
- Stomata are responsible for **transpiration**.
- **Potometer** measures **transpiration**.















- **Guttation** occurs through hydathodes.
- **Capillary water** is readily available to plant roots.
- **Chloroplast** is the site of photosynthesis.
- **Oxygen** is released during photosynthesis.
- Photosynthesis fulfills **carbon and energy requirements** of **autotrophs**.
- **Magnesium** is a constituent of **chlorophyll**.
- **Respiration** occurs during both **day and night**.
- **Auxin** controls **phototropic movement**.
- **Gibberellin** is a **plant hormone**.
- **Ethylene** is used for **artificial ripening of fruits**.

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