- Monocots
 - Single seed leaf (one leaf when they first sprout)
 - Leaf veins are parallel
 - Flower parts in multiples of 3
 - Scattered vascular tissue in stem
- Dicots
 - Two seed leaves
 - Leaf veins are net like
 - Flowering parts in multiples of four
 - Ringed vascular tissue
- Also classified based on life span
 - Annual- complete life cycle over in one year (corn and most garden flowers)
 - Biennial- two years to complete life cycle (carrots)
 - Perennial- lives for more than two years (trees)

Plant Cells and Tissues

- Plant tissues are made of thee basic cell types
 - Parenchyma- stores starch, oils, and water for plants lie where photosynthesis takes
 place.
 - o Collenchyma- Flexible cells that say of third give plants structure.
 - Sclerenchyma- the strong sitt pe used for support have a second cell wall hardened with lignin.
- Plant organs is made of thee tissues is ems
 - o Tissues are groups of cell-working together to perform a function
 - Dermal Tissue- covers the outside of the plant. Also called epidermis.
 - Made of parenchyma cells
 - Ground tissue- most of the inside part of a plant. Provide support and storage in roots and stems, and photosynthesis in leaves.
 - Made of parenchyma, collenchyma, and sclerenchyma cells.
 - Vascular tissues systems- transport water, mineral nutrients to all parts of the plant.
 - Xylem- vascular tissue that carries water
 - Phloem- transports food (products of photosynthesis)

The Vascular System

- Water and dissolved minerals through xylem
 - Does not require energy to move water- passive transport
 - Cohesion- tension theory- polarity of water allows it to move
 - Water molecules stick to each other and the walls of xylem
 - Cohesion- water stick to water
 - Adhesion- water sticks to other things.
 - Water moves from roots up the stem, to the leaves where it can evaporate