

PLANTS

For each topic....REVIEW STANDARDS (ECOLOGY, CELL COMMUNICATION, HOMEOSTASIS, ETC.)

Determine any links between processes and structure of plants to other aspects of biology....ex. vascular tissues and circulatory systems

Roots	Structure, Function, parts of stem (growth), nodules (nitrogen fixing bacteria), mitosis connection, plant hormones involved
Stems	Structure, function, parts of stem (growth), mitosis connection, hormone transport (endocrine system), plant hormones involved
Leaves	Brief overview of photosynthesis/respiration, how stomata work (K ⁺ channels), structure & function of leaf, gas exchange connection with other organisms, plant hormones involved
Vascular Tissues	Xylem, Phloem (monocots vs dicots arrangement), osmosis/transport (hypotonic, hypertonic, isotonic cell conditions), water potential (remember Potato/dialysis tubing lab – review how to calculate water potential), circulatory system connection
Classification	Phylogenetic trees, main differences between angiosperms vs conifers, evolution connection vascular vs nonvascular plants (main differences)
Reproduction	Alternation of generations (brief definition), Angiosperms (flowering plants), double fertilization, hormone connections, polyploidy (genetic variations)