Plant Transportation

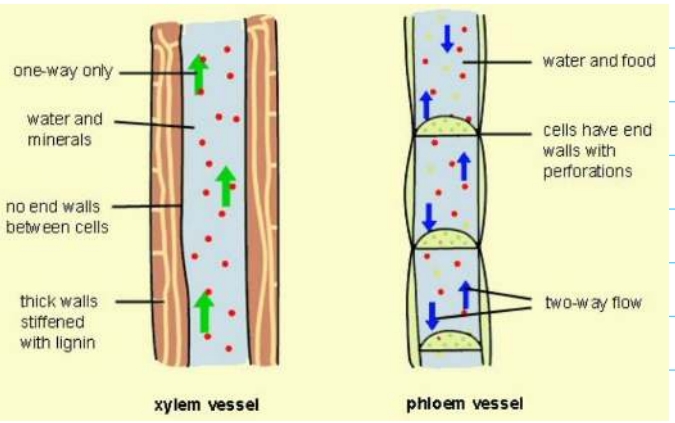
Vascular vs. Non-Vascular Plants

→ have specialized systems for transporting H_2O & nutrients through their systems

→ Xylem & Phloem
The 2 Main "Highways" of a plant stem.

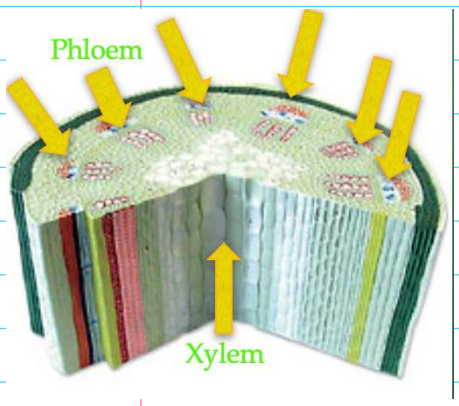
Non-Vascular Plants

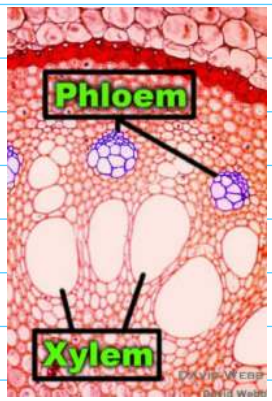




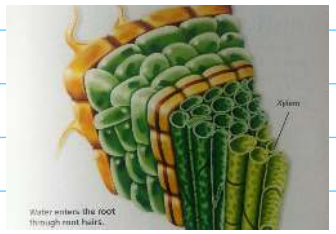
Xylem → plant cells that move nutrients & water from the roots to the leaves.

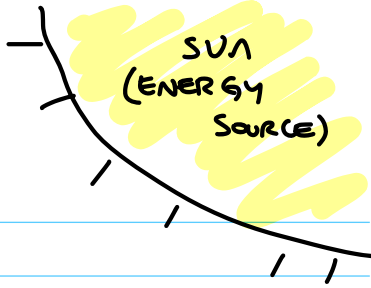
Phloem → plant cells that move nutrients/food from leaves to rest of plant.





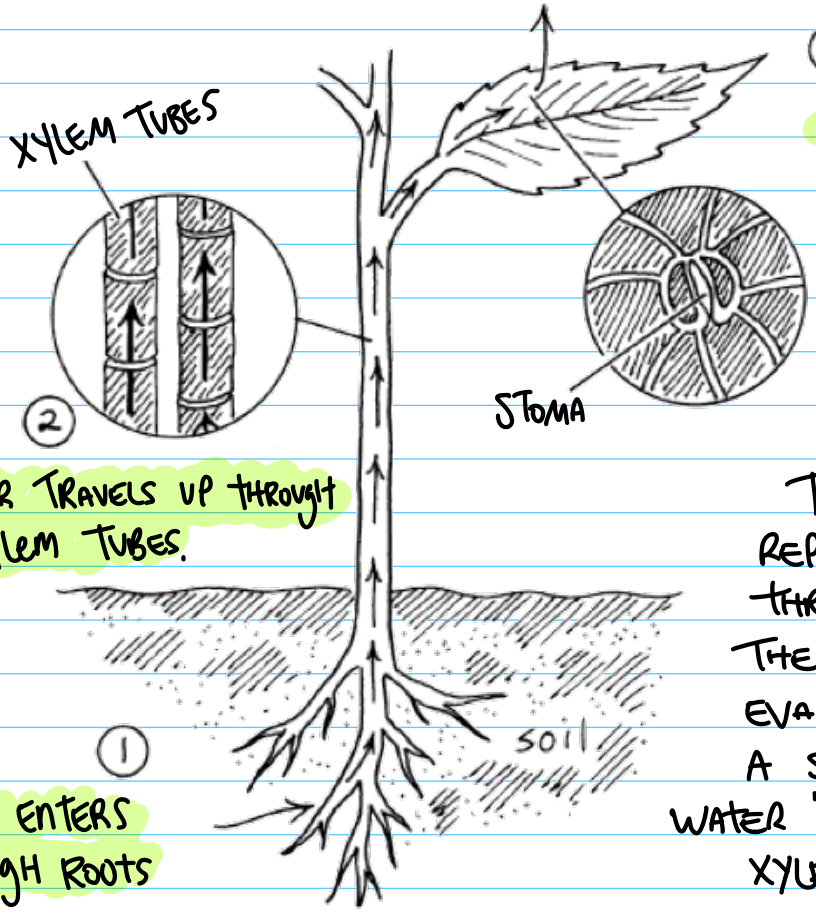






TRANSPIRATION

→ THE EVAPORATION of WATER from PLANTS



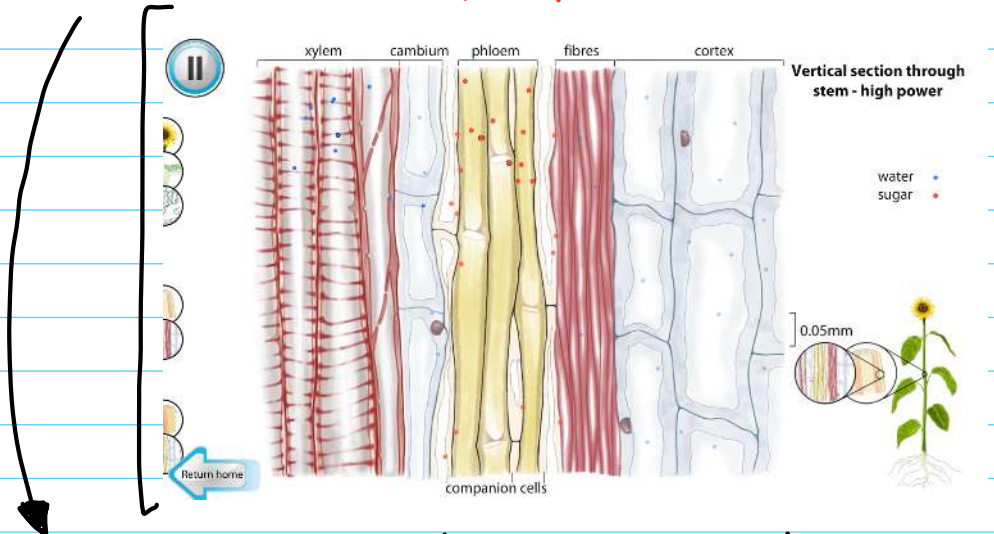
3 WATER EVAPORATES THROUGH THE STOMATA in LEAVES

WATER TRAVELS UP THROUGH XYLEM TUBES.

WATER ENTERS THROUGH ROOTS

THE PLANT MUST REPLACE WATER LOST THROUGH TRANSPIRATION. THE H_2O that is EVAPORATED CREATES A SUCTION THAT HELPS WATER "CLIMB" THROUGH XYLEM.

TRANSPORT of WATER & SUGAR in PLANTS -SIMULATION



[https://www.saps.org.uk/teaching-resources/resources/1274/transport-of-water-and-sugar-in-plants/]