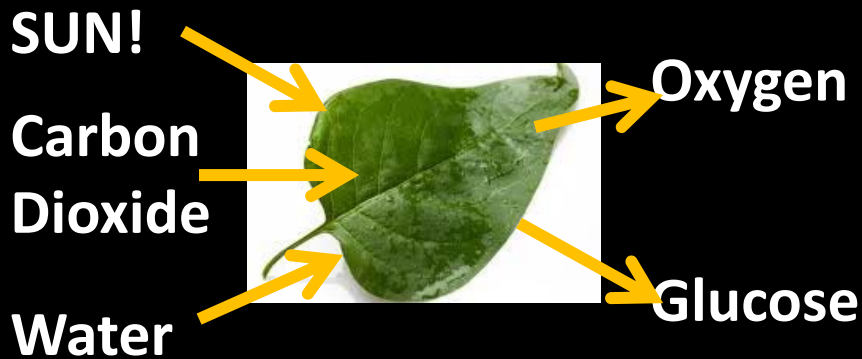
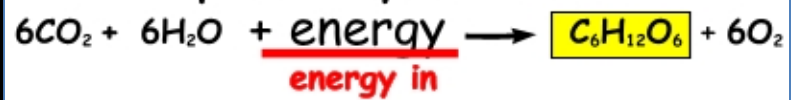


Plant Processes

1. Photosynthesis = process of using sunlight, CO_2 , & water to make glucose & O_2 (Ch. 4.2)
 2. Cellular Respiration = process of using glucose/food & O_2 to release energy (ATP) (Ch. 4.4)
 3. Transpiration = process of water absorption, movement, & release through stomata to the atmosphere so the 2 processes above can take place! (Ch. 21.2)
 4. Reproduction = process of making more plants by way of flowers or cones (Ch. 22.2)
- Write the role each part plays in the process for each column.

PHOTOSYNTHESIS



A. Leaves...

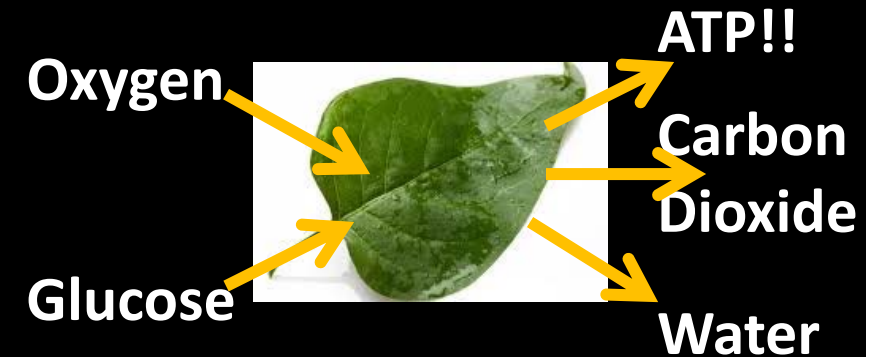
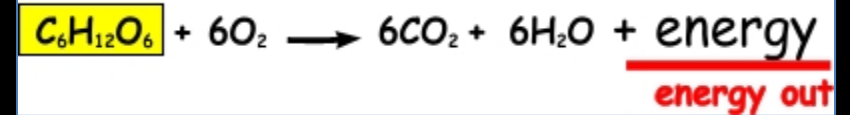
B. Stomata...opening to take in CO₂ & release O₂

C. Guard Cells... control opening of stomate

D. Stem... transport

E. Phloem... tissue inside stem that moves food up AND down

CELL RESPIRATION



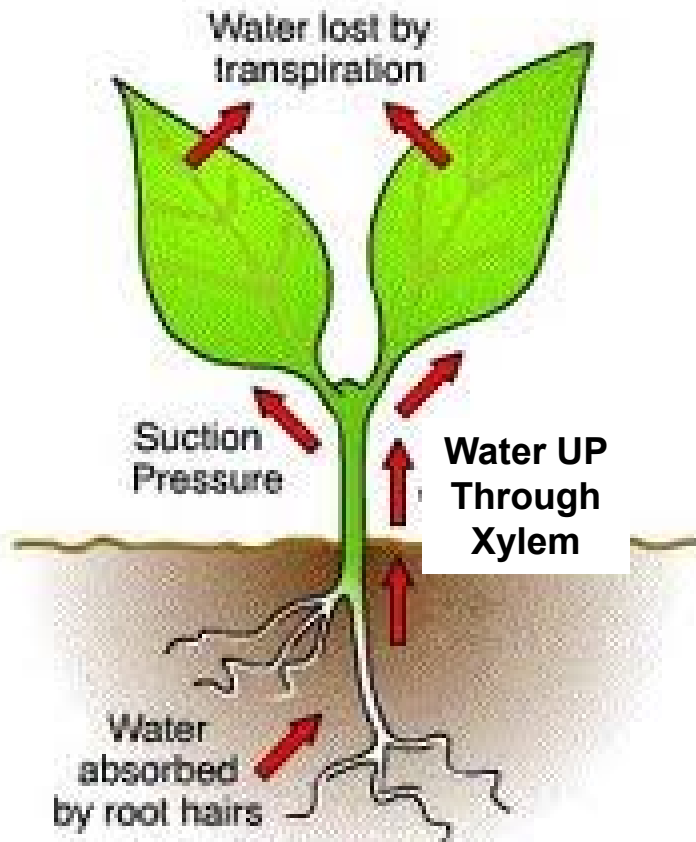
A. Leaves...

B. Stomata... takes in O₂ & release CO₂

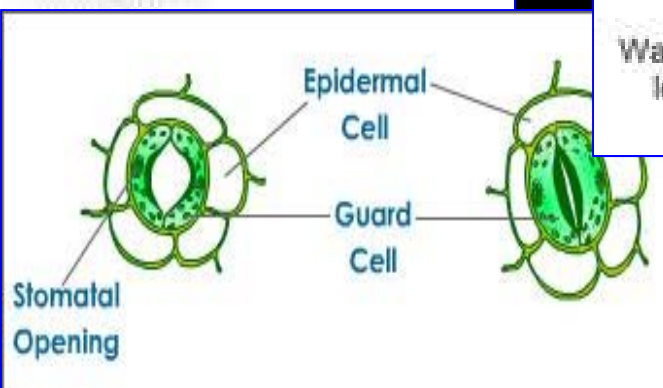
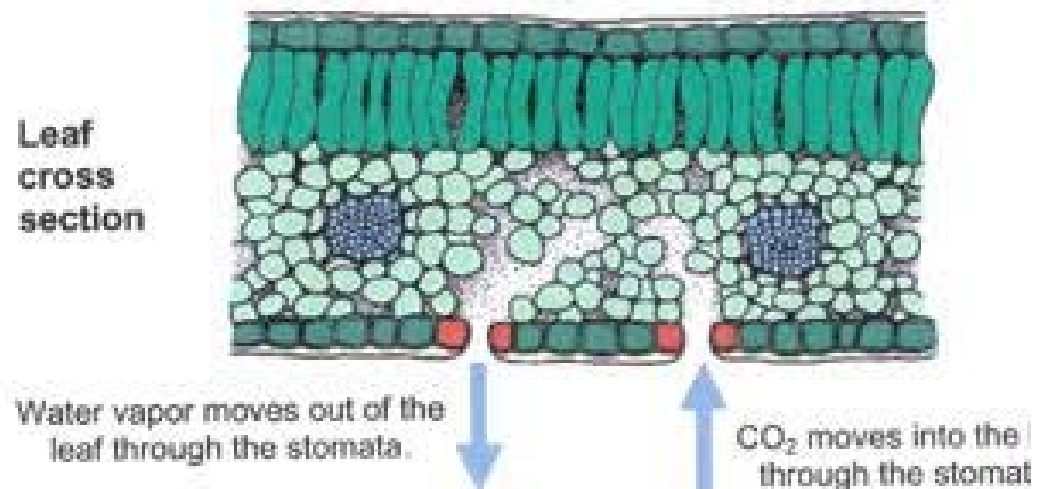
C. Guard Cells...control

D. Stem...transports

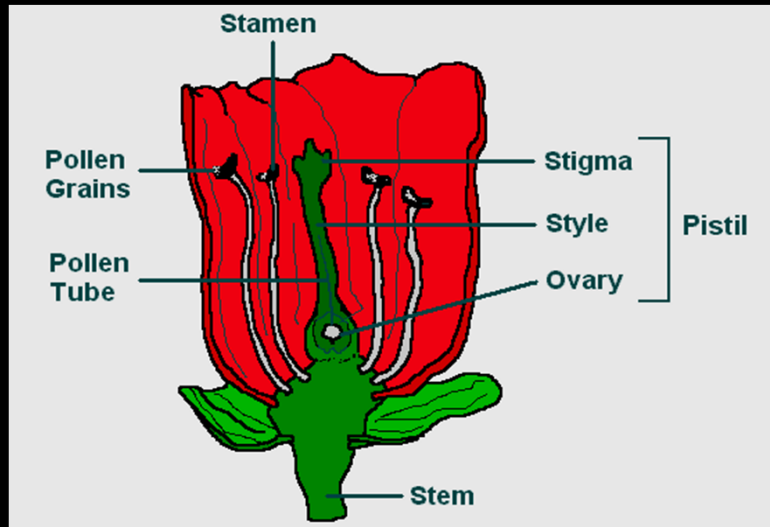
TRANSPIRATION



- A. Leaves...where water leaves**
- B. Stomata...opening**
- C. Guard Cells...control**
- D. Xylem...tissue that moves water UP only**
- E. Roots...where water enters**



REPRODUCTION



Stamen makes pollen (male gamete) → pollen transferred to Pistil → Fertilized egg moves down to ovary → dev. into fruit → where seeds are

Male cone releases pollen → lands on female cone → seed develops in cone but exposed when cone is open → takes 2 years!

A. Flower... Repro. Part of Angiosperms

B. Stamen... male; prod. pollen

C. Pistil... female; receives pollen

D. Fruit... mature ovary

E. Cone... repro. Part of Gymnosperm

F. Seeds... new plants grow from

G. Meristem... site of new growth

H. Cambium... site of growth in stem between xylem & phloem