

## Thursday, Feb 15, 2018

Pick up: Processes WS

#### Today you will:

 Describe how the different parts of a plant are involved in Photosynthesis, Cell Respiration, Transpiration & Reproduction

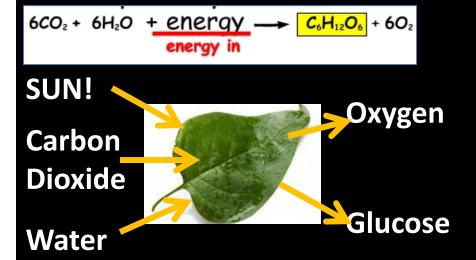
#### **Homework/Planner:**

Complete process for homework if necessary Study for Quiz on Plants & Processes-Tuesday

## **Plant Processes**

- 1. Photosynthesis = process of using sunlight,  $CO_2$ , & water to make glucose &  $O_2$  (Ch. 4.2)
- 2. <u>Cellular Respiration</u> = process of using glucose/food &  $O_2$  to release energy (ATP) (Ch. 4.4)
- 3. <u>Transpiration</u> = 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.

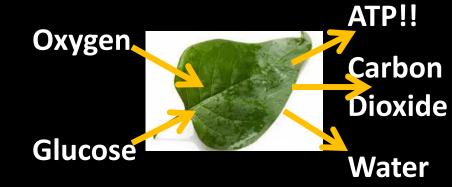
#### **PHOTOSYNTHESIS**



- 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

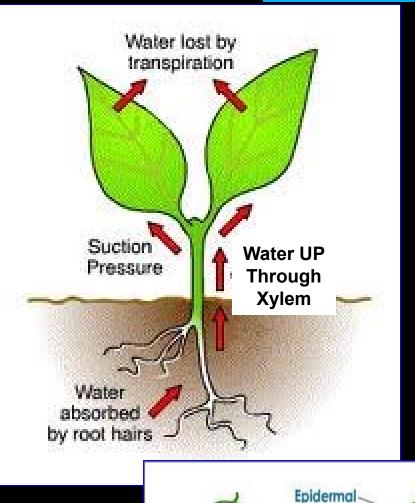
### **CELL RESPIRATION**

C6H12O6 + 6O2 - 6CO2 + 6H2O + energy out



- A. Leaves...
- B. Stomata... takes in O2 & release CO2
- **C. Guard Cells...control**
- D. Stem...transports

# **TRANSPIRATION**



Stomatal Opening Cell

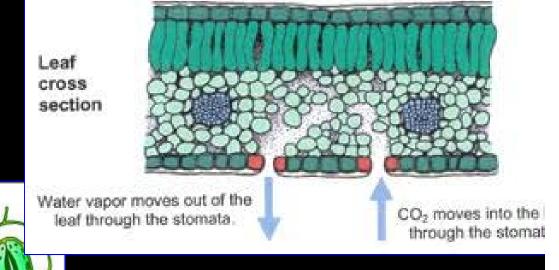
Guard Cell A. Leaves...where water leaves

**B. Stomata...opening** 

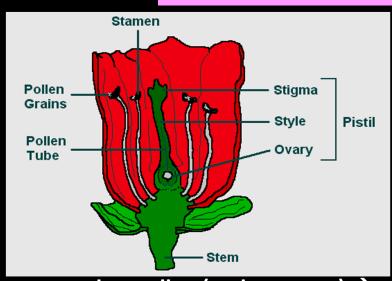
C. Guard Cells...control

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

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



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

G. Meristem... site of new growth

H. Cambium... site of growth in stem

between xylem & phloem