

## Tuesday, April 11, 2017

Pick up:none

#### Today you will:

- 1. Monocot & Dicots
- 2. Plant tissues & classification

#### Homework/Planner:

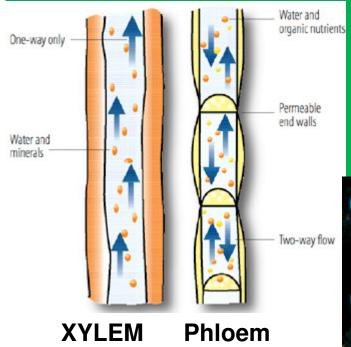
Quiz Thursday!!!!

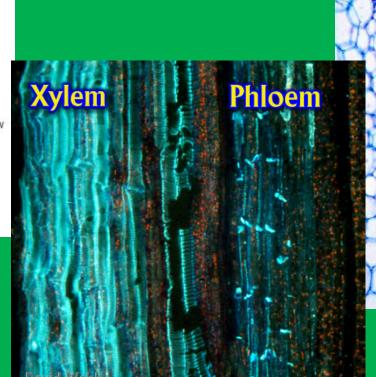
# Cornell Notes, ISN p.197

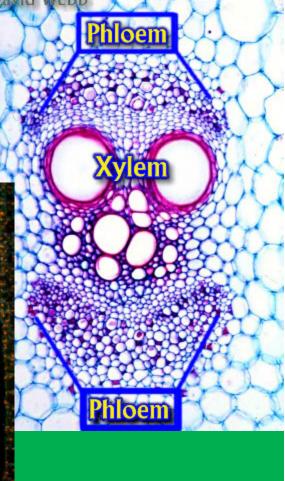
TISSUES IN PLANTS	Function	Location
A) DERMAL	Protect, prevent water loss	Leaf
B) GROUND	Photosynthesis, food storage, support	Stem
C) VASCULAR	Transport of food, water, minerals	Root tissue Ground tissue Vascular tissue

# Cornell Notes, ISN p.197

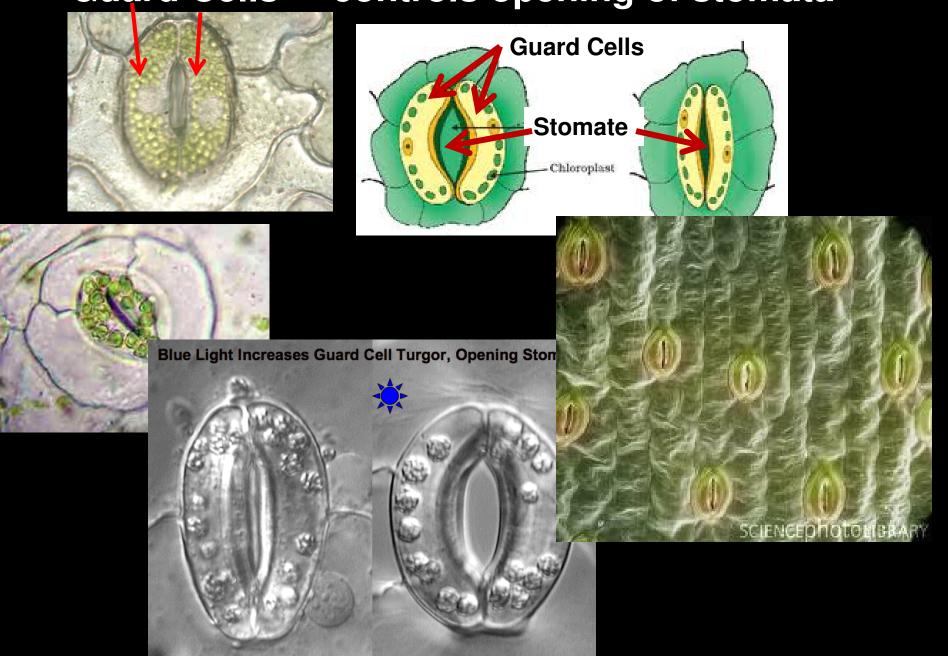
## **Stems:** transport, support





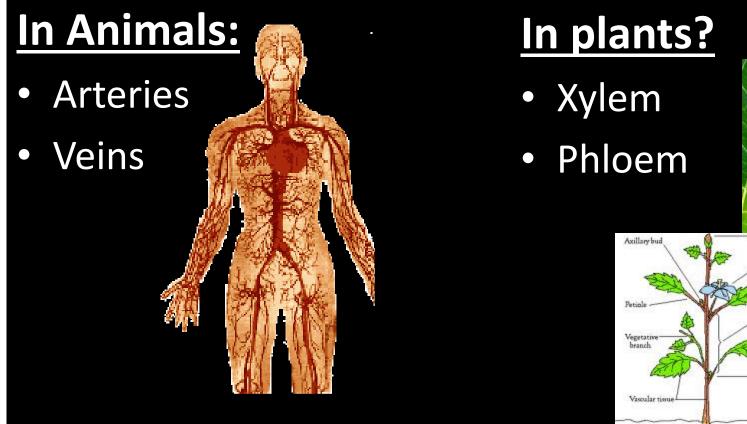


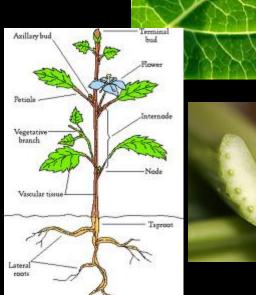
## Guard Cells = controls opening of stomata



## So what IS Vascular Tissue?

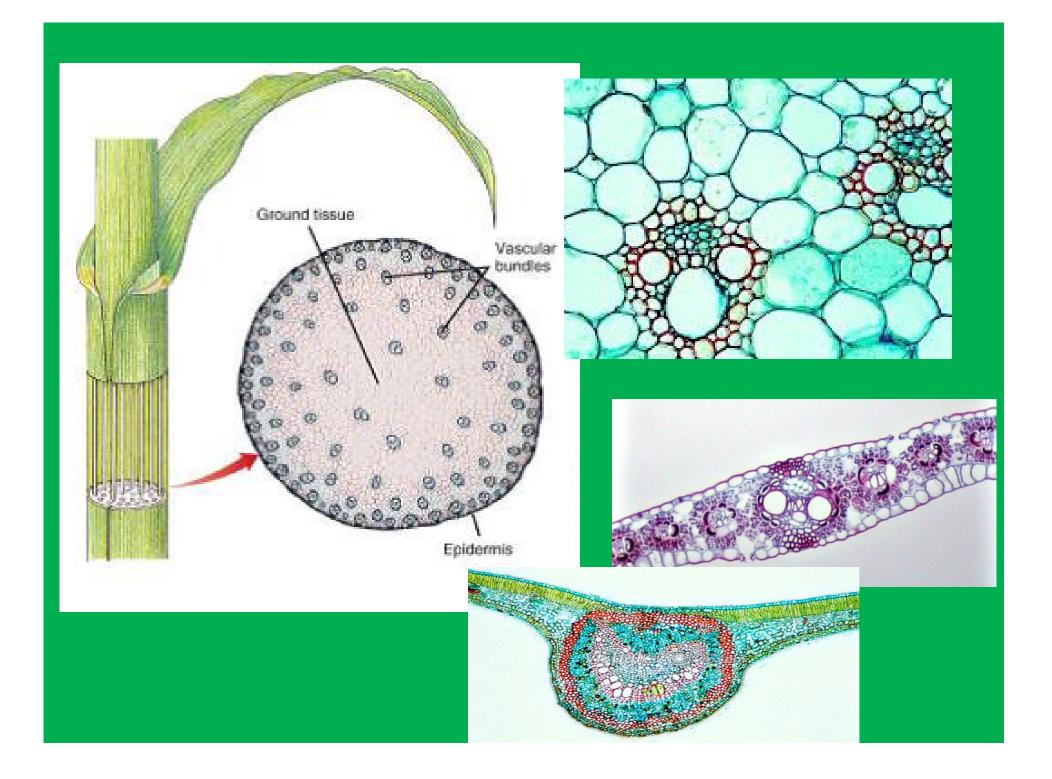
Vessels that move food, nutrients, waste, oxygen, carbon dioxide, water throughout the organism.





## How these compare to Body Systems

1.	ROC	OTSSkeletal system
		Taproot
	B.	Fibrous root
	C.	Meristematic
2.	<u>STE</u>	MSSkeletal, muscular
	A.	Woody
	B.	Herbaceous
		XylemCirculatory sys.
	D.	PhloemCirculatory & Digestive
	<u>LEA</u>	
	A.	Photosynthesis
	B.	Stomates pores in skin
	C.	Transpirationsweating
		Cell Respiration
4.	<u>FLO</u>	WERSReproductive Sys.
	A.	FruitsOvary
	B.	Cones
	C.	PollenSperm
		SeedsEggs
5.	TIS	SUES
	Α. Ι	DermalSkin



#### Angiosperm

Flowering plant-Seeds enclosed in ovary
Deciduous-looses leaves
Flat leaves



#### **Gymnosperm**

NO flowers-seeds in cones or on scales

**Green all year (except Cypress) Needle shaped leaves** 



- A. FRUITS
- **B. CONES**
- C. POLLEN
- D. SEEDS

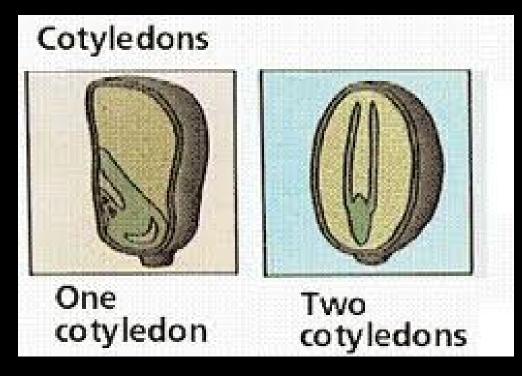
- Develops from ovary of flower
- Where seeds develop
- •Produce male sperm!
- Fertilized egg of a flowering plant containing an embryo that grow into new plant



# MonoCots vs DiCots

 Cotyledon – part of the seed that becomes the young, developing plant-"seed leaf"

DO NOT Split in half easily = corn, coconuts

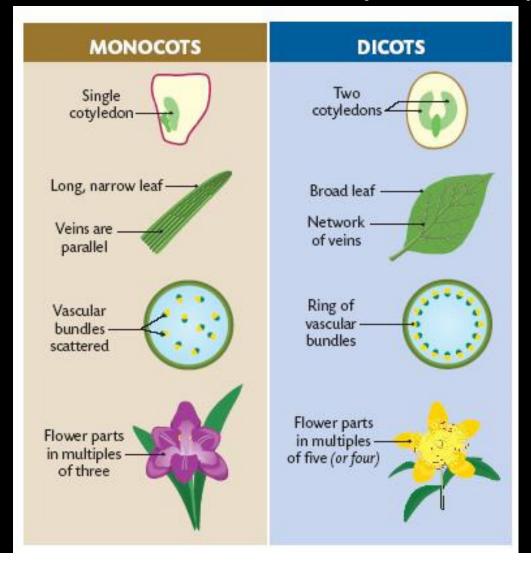


Spilt in half easily = peanuts, beans

Use the Textbook – p. 625-626

# MonoCots vs DiCots

• Cotyledon = 'seed leaf"
provides food to dev. embryo of the plant



# **MONOCot** corn, wheat, rice, grass, palm trees 1 cotyledon



# **DICot** Peanuts, Beans, Oak trees, daisies, roses, hibiscus 2 cotyledons baby stem

### **Plant Processes**

## **ISN** pages 230-231

- 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.