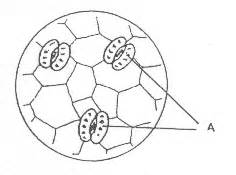
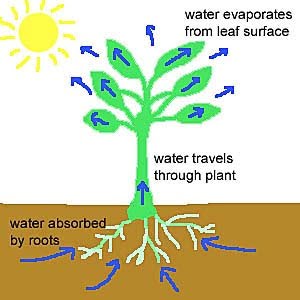
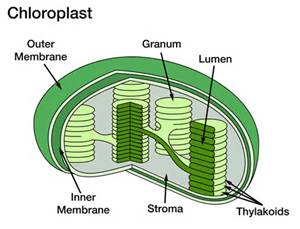
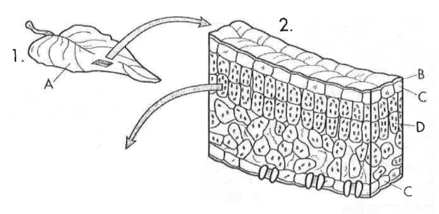
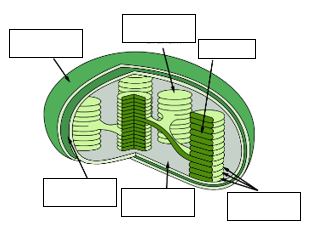
**Leaves**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_– water loss through evaporation**

[](http://www.bing.com/images/search?q=leaf+stoma+labeling&view=detailv2&adlt=strict&qpvt=leaf+stoma+labeling&id=76B9497893B3D4F67CB1F8EEE8A422BB97167873&selectedIndex=52&ccid=PnBtjc/a&simid=608003869539503914&thid=OIP.M3e706d8dcfda2f6e71a17bd1db0ca042o0)

* **Plant organ that grows from stem**
* **The organ where the majority of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ occurs**
* **Leaves vary greatly in\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_**

[](http://www.bing.com/images/search?q=chloroplast+labeling&view=detailv2&adlt=strict&id=D269F97A0F128CE3DE9D114467EC459E82313DC1&selectedIndex=0&ccid=g4tqyGu6&simid=607996984696637501&thid=OIP.M838b6ac86bba0d996b9f55884bb61597H0)



E

F

* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_– waxy covering; prevents water loss through evaporation**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – majority of leaf; contains vascular tissue; photosynthesis** 
  + **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: Top layer, high concentration of chloroplast**
  + **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: bottom layer, allows for gas exchange**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – tiny openings on underside of leaf; gas exchange**
* **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ – control opening and closing of stomata**

Photosynthesis equation:

**ROOTS TROPISMS**

**+ 1st structure to appear on \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**+\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_plant in place**

**+\_\_\_\_\_\_\_\_\_\_\_ water/dissolved minerals from environment**

**+ \_\_\_\_\_\_\_\_\_\_ excess food/sugars**

**Root structures**

* + 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* mat of thin roots that spread out
* characteristic of monocots
  + 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* 1 large vertical root
* also produces many small lateral,
* or branch roots
* characteristic of dicots

**Directional movement responses that occur in response to a directional stimulus**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = response to light**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_= response to touch**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = response to water**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = response to gravity**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = response to chemicals**

**Tropisms can be positive or negative**

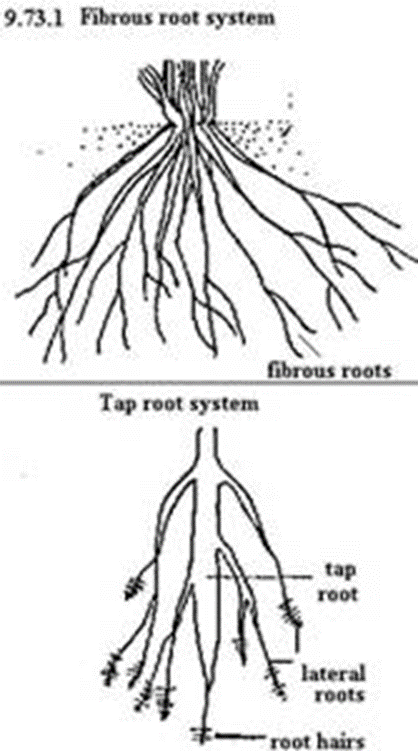
**\_\_\_\_\_\_\_\_\_\_\_\_\_\_= towards stimulus**

**\_\_\_\_\_\_\_\_\_\_\_\_\_= away from stimulus**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_:** **Plant movement that occurs in response to environment**

**Not dependent on the direction of the stimulus**

**Examples: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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