**Leaves**

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



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





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

****







  

  