Name	Per
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TRANSPIRATION WEBQUEST http://passel.unl.edu/pages/animation.php?a=transpiration.swf

Objectives

- ⇒ Describe how the driving forces for water movement and their rates of transpiration.
- ⇒ Describe how environmental conditions alter rates of transpiration & how the plant is able to alter rates of transpiration.

CLICK ON ROOT DETAIL

- **1.** How does the water enter the root
- 2. Describe the three paths water can take?
- **3.** How does water enter the xylem?

CLICK ON STOMATA DETAIL

- 1. What are primary functions of the stomates?
- 2. What environmental factors control the stomates?
- **3.** What are guard cells?
 - a. What controls the shape of the guard cells?
- **4.** Explain how the stomates open and close

CLICK ON XYLEM DETAIL

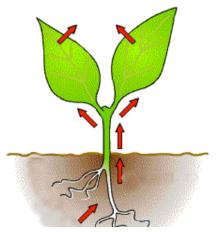
1. What is xylem, and what does it transport?

PLANT PARAMETERS

- 1. What is the purpose of the **Cuticle**?
 - **a.** What happens to the plant if you increase it?
 - **b.** Decrease it?

ENVIRONMENTAL CONDITIONS

- 2. What is **Humidity**?
 - **a.** How does it affect transpiration rates?
 - **a.** What is the result of increasing the relative humidity?
 - **b.** Decreasing it?
- **3.** Why does **Temperature** affect transpiration rates?
 - **a.** Explain what happens when you increase the temperature.
 - **b.** What is the result of decreasing the temperature?
- 4. What affect does **Light** have on the stomates?
 - **a.** How does it affect transpiration rates?
 - b. Is light required for Transpiration? Why or why not?
 - **c.** What wavelengths of light trigger the stomates?
- **5.** What affect does the **Wind** have on transpiration rates?
 - **a.** Why does it change the rate of transpiration
 - b. What is the affect of too much wind on a plant?



LABEL ME!!!!!!!