

Plant Transpiration – Virtual Lab

Directions to Virtual Lab

From the Internet: Go to http://www.classzone.com/cz/books/bio_07/book_home.htm?state=NJ
Under Labs, select virtual labs. Select Plant Transpiration from the list of labs.

From a Computer with the Program: Select Plant Transpiration from the list of labs.

Background:

Transpiration is the evaporation of water from plants. It occurs chiefly in the leaves while their stomata (tiny openings in the undersurface of a leaf) are open for the passage of CO_2 and O_2 during photosynthesis. Air that is not fully saturated with water vapor (100% relative humidity) will dry the surfaces of cells with which it comes in contact. So the photosynthesizing leaf loses substantial amount of water by evaporation. This transpired water must be replaced by the transport of more water from the soil to the leaves through the xylem of the roots and stem. Transpiration accounts for approximately 10% of all evaporating water on this planet. As leaves transpire, the outward flow of water lowers the pressure in the leaf, creating a vacuum that pulls water upward. This force is responsible for most of the water flow in plants, including lifting water to the tops of trees.



Purpose:

To determine how different environmental conditions can affect the rate of plant transpiration

Materials: Get from the Checklist on the Explore part of the virtual lab

- Select each item in the lab. Read the description that appears for each item. Once you have selected all the items (8 total), click procedure to start the lab.

Procedure: Follow the steps to the lab given on the screen until you complete all thirteen (13) steps.

Data/Results:

Table 1. Predictions for Plant Transpiration Lab

Rank	Prediction
1	
2	
3	
4	

Table 2. Transpiration Amounts with Different Environmental Conditions

Conditions	0 minutes	10 minutes	20 minutes	30 minutes
Normal				
Windy				
Warm				
Humid				

Plant Transpiration Virtual Lab Answer Key

Annelies Wilder-Smith



Plant Transpiration Virtual Lab Answer Key:

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