Select 2 types of plant and run a simulation of the transpiration experiment using a normal condition, increased temperature (heater), increased wind (fan), and increased light conditions.

Record your observations below: (4 pts)

Amount of Water Transpired in 1 Hour (mL)				
Plant Type	Normal	With Fan	With Heater	With Light

Analysis: (Please put your answer on a separate page.)

1.) Describe the process of transpiration in vascular plants. (3 pts)

2.) Describe any experimental controls used in the investigation. (1 pt)

3.) What environmental factors that you tested increased the rate of transpiration? Was the rate of transpiration increased for all plants tested? (2 pts)

4.) Did any of the environmental factors (heat, light, or wind) increase the transpiration rate more than the others? Why? (2 pts)

5.) Which species of plant that you tested had the higher transpiration rate? Why do you think different species of plants transpire at different rates? (3 pts)

6.) Suppose you coated the leaves of a plant with petroleum jelly. How would the plant's rate of transpiration be affected? (1 pt)

7.) Of what value to a plant is the ability to lose water through transpiration? (2 pts)