Name:	Date:	Class:

Just Breathe Green Worksheet

Time of day	Temperature	Humidity	Dew point
Weather conditions			
What do you predict tha	t you will see accumul	ate on the bottle/bag?	
Predict the color of wate	er as it evaporates from	n the plant	
Plant ID #			
Common name:		Scientific name:	
Time (minutes)	Weight (g)	Observations	(What do you see?)

Determine the amount of transpiration:

Trial 1 weight		Trial 2 weight		Trial 3 weight	
m	ninus	m	inus	mir	nus
Initial weight		Initial weight		Initial weight	
ec	quals	ec	juals	equ	als
Trial 1		Trial 2		Trial 3	
transpiration		transpiration		transpiration	
mass (g)		mass (g)		mass (g)	
Trial 1		Trial 2		Trial 3	
transpiration		transpiration		transpiration	
rate		rate		rate	
	Average transpiration rate (1 g=1 ml)				

Draw and describe this plant species:

Plant species	
Common name:	Scientific name:
Light requirements	Sketch with details:
Height	
Soil conditions	
Transpiration rate (ml/min)	

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_____ Date: _____ Class: _____

Draw and describe plant species selected by two other classmates and record the transpiration rate below:

Plant species	
Common name:	Scientific name:
Light requirements	Sketch with details:
Height	
Soil conditions	
Transpiration rate (ml/min)	

Plant species	
Common name:	Scientific name:
Light requirements	Sketch with details:
Height	
Soil conditions	
Transpiration rate (m/min)	

Plant species common name:

Trial 1		Trial 2		Trial 3	
transpiration mass		transpiration		transpiration	
(g)		mass (g)		mass (g)	
Trial 1		Trial 2		Trial 3	
transpiration rate		transpiration rate		transpiration rate	
Average transpiration rate (1 g=1 ml):					

Plant species common name:

Trial 1		Trial 2		Trial 3	
transpiration		transpiration		transpiration	
mass (g)		mass (g)		mass (g)	
Trial 1		Trial 2		Trial 3	
transpiration rate		transpiration rate		transpiration rate	
Average transpiration rate (1 g=1 ml)"					

Name:	
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Graphing

In one graph, plot the transpiration rate data as volume over time for each plant species. Use different colors and/or line styles for each plant species and create a key. The slope of the line is the transpiration rate.



Minutes

Analysis Questions

Did one plant species have a higher rate of transpiration than the other? If so, what were the physical differences in the plants? Why might this make a difference? Refer to your drawings and observations of the plants and the data you collected.

What was the color of the condensed water? Why?