## Water IN Water OUT Plant Lab #1

Name:		

## **Osmosis-Water IN**

Plants absorb water and the nutrients dissolved in that water through their roots. How does this happen? Draw a labeled diagram of the Demo set up.

1. Describe in your own words what you observed.

2. Explain what happened. Use the words diffusion, differentially permeable and osmosis in your explanation.

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Water travels up the stem of the plant through the \_\_\_\_\_\_ tissue. Examine this tissue under a microscope. Take a thin slice of celery stalk and make a wet mount slide with it. Draw a labeled diagram below of what you see.

## **Transpiration - Water OUT**

Water exits a plant through tiny openings called stomata. Most stomata are located on the underside of leaves. Make a wet mount slide of the thin skin of the underside of a romaine lettuce leaf. Find a stomata and draw a labeled indicating the guard cells and the stomata opening.

## **Push and Pull**

Using the words osmosis, xylems, and transpiration, explain how a juice box can be a model for how water moves through a plant.