

Osmosis in Action

date _____

Last Name _____, First _____ per ____

Procedure

Use fresh water to prepare a wet mount slide of Elodea (a fresh water plant).

1. Observe the leaf cells at low40X magnification. Describe what you see and then draw a picture of a few cells pay close attention to the chloroplasts.
2. Observe the plant cells at 100X magnification. Describe what you see and then draw a picture of a few cells. Pay close attention to the chloroplasts.

Place a drop of 10% salt water solution on one edge of the cover slip. Place a small piece of paper towel on the opposite edge of the cover slip to draw the salt water through. Repeat steps 1 and 2.

	Plant Cells in Fresh Water	Plant cells in Salt Water
40X magnification		
100X magnification		
Describe the condition of the cell. Size, shape, #of chloroplasts etc.	_____ _____ _____ _____ _____ _____ _____	_____ _____ _____ _____ _____ _____ _____

3. What changes did you observe when you added salt water to the plant cells?
4. What role did osmosis play in the changes you observed?