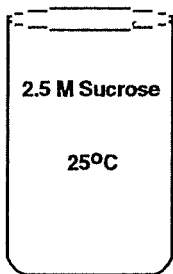
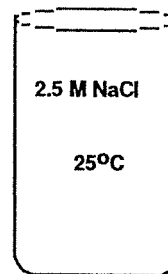


This exercise will familiarize you with the mechanics of calculating a water potential, and must be completed before attempting AP Lab #1.

Open Beaker A



Open Beaker B



**Directions:**

Complete the computations for beaker A and STOP at the dotted line below. Following a brief class discussion we will complete the calculations for beaker B and then answer the questions below the dotted line.

	Write Symbol	Write Value (A)
Pressure Potential =	_____	_____
Ionization Constant =	_____	_____
Molar Concentration =	_____	_____
Pressure Constant =	_____	_____
Temperature °K =	_____	_____

	Write Symbol	Write Value (B)
Pressure Potential =	_____	_____
Ionization Constant =	_____	_____
Molar Concentration =	_____	_____
Pressure Constant =	_____	_____
Temperature °K =	_____	_____

	Write symbol below	Write formula below
Solute Potential =	_____	_____
	Show calculations below	

	Write Symbol below	Write Formula below
Solute Potential =	_____	_____
	Show calculations below	

Solute Potential =	_____
	Show answer below

Solute Potential =	_____
	Show answer below

Solute Potential = \_\_\_\_\_

Solute Potential = \_\_\_\_\_

Show the complete formula for the calculation of water potential. Use both **symbols** and **words**.

\_\_\_\_\_ = \_\_\_\_\_ + \_\_\_\_\_

Substitute the numerical values for Beaker A

Substitute the numerical values for Beaker B

psi Beaker A = \_\_\_\_\_ + \_\_\_\_\_

psi Beaker B = \_\_\_\_\_ + \_\_\_\_\_

psi Beaker A = \_\_\_\_\_

psi Beaker B = \_\_\_\_\_

1.) Which beaker has the greatest free energy of water? \_\_\_\_\_

2.) If the beakers were connected by a membrane permeable only to water would the net movement of water be from.....

A to B or B to A (Circle the correct answer)