Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Water Potential Practice**

 = p + s

s = - i C R T

1. In an open environment, both internally and externally, what is the ONLY really important variable in the water potential formula? Why?

2. An animal cell has a .7 molar KCl concentration inside of the cytosol and is placed in a .75 molar solution of KCl. If the temperature is 26° C what is the water potential inside the cell?

3. A bacterial cell has an internal solute concentration of .86 Mol and a pressure potential of 2.0 bar. If the environment is at 20° C with a concentration of .95 Mol, which way will H2O move? (solute name intentionally not given)

4. What is it dangerous to drink a lot of 100% pure water?

5. Solute: NaCl, C (ext) = 2 Mol, C (int) = .09 Mol, T = 31° C. Which way will the water move?