

Name:

Date:

Class:

Pre-Activity Assessment **Answer Key**

Instructions: Answer the following questions.

1. How many valence electrons does sodium have? What type of ion would it be?
Sodium is in Group I in the Periodic Table, therefore it has one (1) valence electron. The sodium ion is positive (cation).
2. How many valence electrons does calcium have? What type of ion would it be?
Calcium is in Group II in the Periodic Table; therefore it has two (2) valence electrons. The calcium ion is positive (cation).
3. What does 1M solution mean (describe in terms of solute, solvent, solution)?
A 1M (1 Molar) solution means that there is 1 mole of solute dissolved in one (1) liter of aqueous solution. The solvent is water.
4. What does 0.1M solution mean (describe in terms of solute, solvent, solution)?
A 0.1M (0.1 Molar) solution means that there is 0.1 mole of solute dissolved in one (1) liter of aqueous solution. The solvent is water.