**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).

* + - 1. 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).

* + - 1. 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.

* + - 1. 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.