**Negative Ion Quizzes**

H/Chemistry/1213

**Suggested Strategy for Memorization and Quiz-Taking**

1. Begin with all negative ions that end in “ide”.

 a. Find all the “ide” ions that can be found on the periodic table – you can derive the

charges from their position on the PT.

e.g. chlorine is in Group VIIA (17) 🡪 needs one more electron to form an octet

🡪 chloride with a 1- charge: Cl-

 b. Find all the other “ide” ions – memorize these.

2. Find ions that end in “ite” or “ate”.

 a. Group these ions together based on their root element. e.g. chlorine.

 b. “ite” comes before “ate”.

 c. “hypo” and “per” are modifiers, indicating extremes.

3. Find ions that begin with “hydrogen”.

 a. Group these ions together based on what ion comes after the hydrogen.

 e.g. hydrogen phosphate and dihydrogen phosphate are derived from phosphate.

 b. For every hydrogen that is added, remove one negative charge

e.g. hydrogen phosphate has a charge of 2-, while phosphate has a charge of 3-.

4. After you have made your flashcards, break them into the groups, such as the ones listed above.

Focus on each of these groups until you have them memorized, then merge groups until you

have all of the ions memorized and can distinguish them from each other.

5. On the quiz, follow the same strategy.

 a. Begin with all the ions that end in “ide” or have only a single element.

 b. Continue on to another group of ions with which you recognize a pattern,

e.g. “ite” vs “ate” or those that begin with “hydrogen”.