Preparation for the upcoming year in AP Chemistry will put you ahead of the game at 8049

the beginning of the school year and allow me to spend less time reviewing and more time teaching new topics.  This will greatly improve your chances of success both in the class and on the AP exam.

***INSTRUCTIONS:***

1. **Familiarize yourself with the Periodic Table**.  You should quickly recognize the symbols (name them) and their positions on the Periodic Table for the first 20 elements.  Use your periodic table from class this past year as a reference/study aid.
2. **Memorize the list of elements/symbols and sixty familiar ions**.  You should be able to write the symbol/charge of the ion given the name and vice versa.
* Included is a list of ions by name and four practice quizzes.
* Make flashcards for all the ions and arrange them by groups based on patterns you observe.  For example, which ones are made of only one element / several elements?  Which ones have positive charges vs. negative charges?  If it’s an ion from a single element, where is it located on the periodic table? Which ones have several possible charges?  How are they named, e.g. – ium, -ide, -ate, -ite, hypo-, per-, bi-, thio-, -ous, -ic?
* You should be able to complete the practice quiz in less than 5 minutes without trouble.  (Basically you need to know your ions better than your multiplication table.)
* **There will be a *QUIZ* on the 2nd day of school.**
1. **Complete the Review questions/problems**. If you need to review any topics, you may find the following YouTube videos to be helpful:
* Crash Course Chemistry
* Khan Academy
* Tyler DeWitt
* Professor Dave Explains
* ChemistNATE
* Bozeman science

 THIS HOMEWORK IS DUE ON THE FIRST DAY OF SCHOOL AND WILL BE GRADED.  Please complete the Review neatly on a separate sheet of paper, showing your work when appropriate, and completely answering all questions.  This assignment will take a while to complete so don’t wait until the last minute.  The better you are able to do these problems, the more prepared you will be to succeed in AP Chemistry.

**You are responsible for all material in the review and will be using it all year in the course.**