

# Unit 1 Study Guide

## Matter and Periodic Trends

Test Date: \_\_\_\_\_

**Test Topics** – Use this as a checklist as you study

- History of Atomic Structure
- Atomic Structure / Periodic Table  
*egs. standard atomic notation / how to use the periodic table / names & locations of groups*  
*This is mostly background knowledge that you will need to understand the language and notation of questions on the test.*
- Periodic Trends  
*Effective Nuclear Charge / Shielding, Atomic Radius, Ionization energy, Electron Affinity, Electronegativity*
- Isotopes / Radioactivity
- Calculating Atomic Mass
- Chemical Bonding / Ionic Bonds / Covalent Bonds
- Molecular Polarity

*You are responsible for all material covered in Chapters 1 & 2, all class work including notes, demonstrations, labs and class discussions. Your primary (but not exclusive) study materials should be your class notes since they are a summary of the key points emphasized in class. Preparation for a test requires time and practice, plan accordingly. Extra help is available as always before or after school by appointment. After independent study, collaboration with your classmates is highly recommended.*

### **Recommended Textbook Review Questions:**

Section review questions are good places to look for extra practice problems. Retrying homework problems is also a good way to reinforce concepts.

### **Self Quiz – pg.47**

### **Chapter 1 Review – pgs.48-53**

**# 1-19, 24,25, 27-44, 47, 49-57, 60-74, 77-80, 83, 87**