**ARC Week at Glance (Mrs. Hiatt)**

**Topic:** Atomic Structure and Properties **Course:** AP Chem **Grade:** 10 **Dates:** 9/2-9/5

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|  | **Learning Target**  **(I am learning about…)** | **Criteria for Success**  **(I can…)** | **Activation/ Instruction** | **Collaboration/ Guided Practice** | **Independent Learning/ Assessment** |
| *(Include at least one/two formatives\*in any part of the lesson as needed)* | | |
| **Monday** |  |  |  |  |  |
| **Tuesday** | I am learning about atomic structure and electron configuration. | I can…   * Represent the electron configuration of an element or ions of an element using the Aufbau Principle * Explain Coulomb’s Law | Test Prep Tuesday  1.4 MCQ Question worked out on small sheet of paper and turned in | 1.5 IDWDYD  Powerpoint on electron configuration | You do electron configuration practice  1.6 Homework |
| **Wednesday** | I am learning about photoelectron spectroscopy. | I can …   * Explain the relationship between the photoelectron spectrum of an atom or ion and: a.) the ground-state electron configuration of the species and b.) the interactions between the electrons and the nucleus | WIS WIMS—PES Example spectra: Write down everything you see and what conclusions you can make | 1.6 IDWDYD | Assessment Check—Units 1.1-1.4  You do questions  1.7 Homework |
| **Thursday** | I am learning about periodic trends. | I can…   * Explain the relationship between trends in atomic properties of elements and electronic structure and periodicity * Define ionization energy, atomic and ionic radii, electron affinity, and electronegativity | Throwback Thursday: Practice MCQ from first half of unit | 1.7 IDWDYD | You do questions  1.8 Homework |
| **Friday** | I am learning about valence electrons and ionic compounds. | I can…   * Define valence electron (talk about ionic charge) * Explain the relationship between trends in the reactivity of elements and periodicity | FRQ Friday—FRQ on Unit 1 combined question | 1.8 IDWDYD  Powerpoint on ions and ionic charges | You do Questions  Unit 1 Progress Check Formative Assessment—take home self-evaluation sheet to bring back Monday. Study for test Tuesday |

Literacy Tasks Minor Assessment Major Assessment