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

**Topic:** Atomic Structure and Properties **Course:** AP Chem **Grade:** 10 **Dates:** 8/11-8/15

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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** | I am learning about dimensional analysis, scientific notation, and sig figs. | I can…   * Complete mathematical conversions between different units of measurement * Correctly round numbers to the correct number of significant figures | Math Monday: Recipe given question having to do math conversions  Reminder for AP Classroom, Lab Safety Quiz, remind, etc.  Review Lab, handout folders | Dimensional Analysis Practice, Sig fig and scientific notation practice if time—give cheat sheet out | Challenge questions--Molar Mass conversion questions, see if students are able to solve  Homework: Watch unit 1.2 video and complete questions and Pre-Test Progress Check |
| **Tuesday** | I am learning about mass spectra of elements and mass of isotopes | I can…   * Read and interpret a mass spectra graph to determine the atomic mass of an element * Calculate percent abundance of an isotope | Test Prep Tuesday—Practice MCQ question from homework | IDYDWD Mass Spectra | You Do Questions  Homework: Pre-test progress check if not completed and unit 1.5 or 1.1 videos and questions |
| **Wednesday** | I am learning about moles and molar mass | I can …   * Calculate quantities of a substance or its relative number of particles using dimensional analysis and the mole concept | WIS WIM Do Now – Mass Spectra Graph Reading | IDYDWD Moles and Molar Mass | Dimensional Analysis Stations  Lab  Homework: 1.3 |
| **Thursday** | I am learning about elemental composition of pure substances. | I can…   * Explain the quantitative relationship between the elemental composition by mass and the empirical formula of a pure substance. | Throwback Thursday—MCQ Questions and justification of answers dimensional analysis | IDYDWD elemental composition | Isotopes and Mass Spectra, dimensional analysis quiz  Homework 1.4 |
| **Friday** | I am learning about composition of mixtures | I can…   * Explain the quantitative relationship between the elemental composition by mass and the composition of substances in a mixture | FRQ Friday—practice FRQ question, reading previous years questions and answers | IDYDWD composition of mixtures | Week Review Stations  Homework 1.5 |

Literacy Tasks Minor Assessment Major Assessment