**ARC Week at Glance – Meena (S1, W11)**

**Topic: PES & Electron configuration Course: AP Chemistry Grade: 9-12 Dates: Oct 16-18**

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|  | **Learning Target****(I am learning …)** | **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** | Fall break |  |  |  |  |
| **Tuesday** | Fall break |  |  |  |  |
| **Wednesday** | *I am learning about the electron configuration and photoelectron spectroscopy* | *I can**--Interpret a photoelectron to identify the relative energies of electrons.**--Relate the features of a PES and explain how trends in ionization energy are reflected in the spectrum.* | *Bell work: write the ground state electron configuration, noble gas notation, orbital diagram of nitrogen. Magnesium and chlorine* | * *Provide a PES graph for a simple element (like sodium or neon) and guide students through interpreting the peaks:*
	+ *Identify the energy levels associated with each peak.*
	+ *Explain how the relative peak heights reflect the number of electrons in each sublevel.*

*Connect the observed PES features to the electron configuration of the element* | *College board daily videos* *& topic quiz* |
| **Thursday** | *I am learning about the electron configuration and photoelectron spectroscopy.* | *I can**--Interpret a photoelectron to identify the relative energies of electrons.**--Relate the features of a PES and explain how trends in ionization energy are reflected in the spectrum.* | *Bell work: write the ground state electron configuration, noble gas notation, orbital diagram of nitrogen. Magnesium and chlorine.* | * *Provide a PES graph for a simple element (like sodium or neon) and guide students through interpreting the peaks:*
	+ *Identify the energy levels associated with each peak.*
	+ *Explain how the relative peak heights reflect the number of electrons in each sublevel.*

*Connect the observed PES features to the electron configuration of the element.* | *College board daily videos* *& topic quiz* |
| **Friday** | *I am learning about the electron configuration and photoelectron spectroscopy.* | *I can prove my understanding on the concepts of periodic table and electron configuration.* | *Review for the test.* | *The students will take a test on the mentioned unit.**Discuss the answers/ swap the answer sheets and grade each other’s test paper.* | *College board daily videos* *& topic quiz* |

**Additional Info: Literacy Task Minor Grade Major Grade Course materials and resources are available in Canvas.**