**ARC Week at Glance – Meena (S1, W5)**

**Topic: Atoms, molecules, ions Course: AP Chemistry Grade: 9-12 Dates: September 4-6**

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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** | LABOR DAY HOLIDAY |  |  |  |  |
| **Tuesday** | POWER UP ASYNCHRONOUS DAY |  |  |  |  |
| **Wednesday** | *I am learning to identify three types of subatomic particles* | *I can*  *--explain how Democritus and john Dalton described atoms*  *-- identify instruments used to observe individual atoms.* | *Do Now: Daily FRQ/MCQ* | *\*Power point presentation*  *\*Discuss the three kinds of subatomic particles.*  *\*Describe the structure of atoms according to the Rutherford atomic model.*  *\*Compare the masses and charges of the three subatomic particles.*  *\*The students will complete the lesson check* | *Exit ticket: How did Rutherford’s model of the atom differ from Thomson’s?* |
| **Thursday** | *I am learning to calculate the atomic number, atomic mass of atoms* | *I can*  *-- identify three types of subatomic particles.*  *-- describe the structure of atoms according to the Rutherford atomic model.* | *Do Now: Daily FRQ/MCQ* | *\*Trace the history of atomic models and examine the role of the scientific method in the development of such models.*  *\*Have students create a timeline that traces the development of the atomic model.*  *\*Have them note the data that led to an existing model being changed.* | *Exit ticket: Is it possible to convert atoms of one element into atoms of another? Explain.* |
| **Friday** | *I am learning to explain what makes elements and isotopes different from each other.* | *I can*  --*explain what makes elements and isotopes different from each other.*  *-- calculate the number of neutrons in an atom* | *Do Now: Daily FRQ/MCQ* | *-Power point presentation distinguishing among atoms/ video*  *\*Understand atomic number and mass number and the relationship between them.*  *\*Discuss the formula for finding the # of neutrons, protons and electrons.*  *\*Complete an assignment to identify the element from the # of protons* | *Exit ticket: How do you find the number of neutrons in an atom?* |

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