**ARC Week at Glance – Meena (S 1, W 3)**

**Topic: Atomic structure Course: Physical science Grade: 9-12 Dates: August 19-23**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **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** | *I am learning about atomic structure* | *I can…**-Describe the basic structure of atoms including protons, neutrons, and electrons.**-Create a model of an atom, including the location and charge of the subatomic particles.* | *Do now—students will write few sentences about atom.**--discuss students answer and tailor three subatomic particles, their location, charge and mass.**Unit—pre-assessment* | *Guided practice—assignment to label the subatomic particles and answer the review questions.* | *TOTD: share your understanding on today’s instruction.* |
| **Tuesday** | *I am learning about atomic number and atomic mass* | *I can…**-Interpret the periodic table to define the atomic number and atomic mass of an element.* *-Use knowledge of the periodic table to identify unknown elements.* | *Do now—MCQ—justification with answers.**Overview of periodic table, defining atomic number and atomic mass* | *Group activity – finding atomic number, atomic mass of elements allotted to their group. Share and check for understanding.* | *Complete the assignment to calculate protons, electrons and neutrons when atomic number and atomic mass are given.* |
| **Wednesday** | *I am learning about ions and isotopes* | *I can…**-Explain the difference between atoms, ions, and isotopes**-Understand the uses of isotopes in real world scenarios.* | *Do Now – Practice: element, atomic number, protons, neutron, electron.* | *Interactive activity—using beads, students will create model of neutral atom, ions and isotope.* | *Presentation/sharing of student’s individually created ions/isotopes.* |
| **Thursday** | *I am learning about atoms, ions, and isotopes* | *I can…**-Compare and contrast atoms, ions, and isotopes**-Analyze information given to determine if an unknown element is an ion or isotope.* | *Do now—practice: review MCQ—justification with answer*. | *Creating notes, defining, giving examples of ions and isotopes from the power point made differentiating neutral atom, ions and isotope*s. | *Complete the student notes and opportunity to correct students notes.*  |
| **Friday** | *I am learning about atoms, ions, and isotopes* | *I can…**-Compare and contrast atoms, ions, and isotopes**-Analyze information given to determine if an unknown element is an ion or isotope* | *No bell ringer—review the concept—for post assessment*. | *Test –atomic structure.**Instruction to take the test.* | *Go over the questions and discuss the answers.* |

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