**Major topic: Atomic Structure and Radioactivity**

Time:

50 minutes

Objective:

Students will be able to identify the location of protons, neutrons and electrons, and relate the number of each to what an element its atomic mass and number.

Materials:

Handouts, Paper Plates, Scissors, Fruit Loops Cereal, Stickers, Glue, Assignment Model

Handouts:

*“Atomic Structure Guided Notes” “Fruit Loops Atomic Model” “Atomic Number Fruit Loop Cards” “Periodic Table”*

Plan:

1. Do Now: “What particles are inside of an atom? What is the charge of each?”
2. Introductory Guided Notes: A brief exploration into what atoms are made of in which students will answer questions and work through filling out a sheet of guided notes to be used in driving the next several lessons and activities. Using new and prior knowledge, they will organize the information needed to understand the numbers and symbols on a periodic table.
3. Atomic Structure Activity: Students will look deeper into the structure of an atom by building a model of an element from the periodic table. Students will be given one of twelve cards on which an element is listed. They will fill in the missing information about the element using a periodic table and skills gained from their notes/graphic organizer. They will then trade and assess the information of a peer before using their card to build their atom on a paper plate; the model atom will be constructed with different colored fruit loops for each kind of subatomic particle.

Assessments:

Do Now; oral assessments through questioning and facilitation of notes and activity; peer assessment of atomic cards; deliverable model.