Introduction

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| ***Teacher:*** | Ms. Athwal | ***Date:*** | August 12-16 | ***Course:*** | Chemistry | ***Grade:*** | 11 |
| ***CA Standard(s):***  1a *Students know* how to relate the position of an element in the periodic table to its atomic number and atomic mass.  IE1g *Students know* how to recognize the usefulness of models and theories as scientific representations of reality.  IE1k *Students know* how to recognize the cumulative nature of scientific evidence.  IE1n *Students know* that when an observation does not agree with an accepted scientific theory, the observation is sometimes mistaken or fraudulent (e.g., the Piltdown Man fossil or unidentified flying objects) and that the theory is sometimes wrong (e.g., the Ptolemaic model of the movement of the Sun, Moon, and planets).  1h *Students know* the experimental basis for Thomson’s discovery of the electron, Rutherford’s nuclear atom, Millikan’s oil drop experiment, and Einstein’s explanation of the photoelectric effect. | | | | | | | |
| ***Learning Objective (s):***  LT 1.1: Introduction to the Atom  LT 1.3: Introduction to the Periodic Table  LT 1.2: Development of the Atomic Theory | | | | | | | |
| ***Essential Question(s):*** How do elements affect your every day life? What is the relationship between the number of protons, neutrons and electrons in an atom and the respective element’s atomic number and atomic mass number | | | | | | | |
| ***Assessment:***Daily Exit Slips (Google Forms) | | | | | | | |
| ***Do Now:*** *What is an atom? What is an element?* | | | | | | | |

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| **WHOLE GROUP/ DIRECT INTRUCTION** |
| * Subatomic Particles of an atom: proton, neutron, electron. Where they are located, their mass and charges * The periodic table: How it was discovered by Mendeleev, what the atomic mass is, what the atomic number is, and how to find the number of protons neutrons and electrons for each element * The evolution of the atomic model: Plum pudding model to peach model to Bohr model. How chemistry builds on itself and evolves over time; How an initial observation may or may not be corret |

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| **SMALL GROUP STATION** |  | **COLLABORATIVE STATION** |  | **COMPUTER ASSISTED STATION** |
| -Death by Element worksheet  - Who discovered what worksheet |  | -Aluminum foil lab the demonstrate the relative size of an atom |  | Set up computers: Gmail email account, become familiar with Ms. Athwal’s website, use google drive  -Student Safety Lab |