Introduction

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| ***Teacher:*** | Ms. Athwal  | ***Date:*** | August 26-30 | ***Course:*** | Chemistry | ***Grade:*** | 11 |
| ***CA Standard(s):*** 1c Students know how to use the periodic table to identify alkali metals, alkaline earth metals and transition metals, trends in ionization energy, electronegativity, and the relative sizes of ions and atoms. |
| ***Learning Objective (s):*** LT 1.7 – I can define ionization energy and explain how it relates to the charge of the nucleus and the electron. Furthermore, I can explain how this trend changes as you move throughout the Periodic Table.  |
| ***Essential Question(s):*** If an atom is mostly empty space, what does that mean about the world I live in?  |
| ***Assessment:***Daily Exit Slips  |
| ***Do Now:*** 1. List an element from the following groups: alkali, alkaline earth metal, transition metal, halogen, and Noble gas.2. Why do different groups have different properties?3. Label as metal, non-metal, or semimetal: sodium, silicon, neon, and cobalt.5. Order the elements from largest to smallest IE: Fluorine, Carbon, Oxygen.6. Order the following from largest to smallest atomic radius: Ca, Se, Ni  - Answer: Se, Ni, Ca7. What are the steps of the scientific method?  |

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| **WHOLE GROUP/ DIRECT INTRUCTION** |
| * Ionization energy trends across the periodic table
* Atomic radius trends across the periodic table
* What is the scientific method? The zombie apocalypse
* Review: Lt 1.1/1.2/1.3/1.4/1.5/1.6/1.7/1.9
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| **SMALL GROUP STATION** |  | **COLLABORATIVE STATION** |  | **COMPUTER ASSISTED STATION** |
| White board quesionts/HW review  |  |  Stations review questions  |  | Each student will go on my website [www.athwalchemistry.weebly.com](http://www.athwalchemistry.weebly.com) and under the blog page they will reply each blog topic (each is a different LT), and describe what they have learned in regards to that LT as if they were teaching it to someone else  |