Electronegativity & Atomic Radius/ Review

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| ***Teacher:*** | Ms. Athwal  | ***Date:*** | September 3-6 | ***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 1.8 – I can define electronegativity and explain how it relates to the charge of the nucleus andthe electron. Furthermore, I can explain how this trend changes as you move throughout the Periodic Table.LT 1.9 – I can define atomic/ionic radius 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. What is the ionization energy?
2. In what direction across the periodic table does the ionization energy increase?
3. Why does silicon have a lower ionization energy than phosphorus?
4. Order from smallest to largest electronegativity: Fluorine, Chloride, Bromine.
5. Order from smallest to largest atomic radius: oxygen, beryllium, lithium.
6. Take out your learning target log and rate yourself 1 – 4 on all learning targets.
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| **WHOLE GROUP/ DIRECT INTRUCTION** |
| * Electronegativity 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** |
| Individual help with questions/concepts not completely understood from [Stations Review Questions](file:///C%3A%5CDocuments%20and%20Settings%5C%21pom-1-4607%5CMy%20Documents%5CAKA%5CStations%20Review.docx)   |  |  [Stations review questions](file:///C%3A%5CDocuments%20and%20Settings%5C%21pom-1-4607%5CMy%20Documents%5CAKA%5CStations%20Review.docx)  |  | 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  |