

# POGIL: Periodic Trends in Atomic Properties

## Information

Properties such as the size of an atom (atomic radius), the energy required to remove an electron from an atom (ionization energy), and the energy associated with the addition of an electron to a gaseous atom (electron affinity) can be understood in terms of the electron configuration of the atom and a competition between *electron-nucleus attraction* and *electron-electron repulsion*.

**Preliminary Activity** - Complete the orbital diagrams for the ground state configuration.

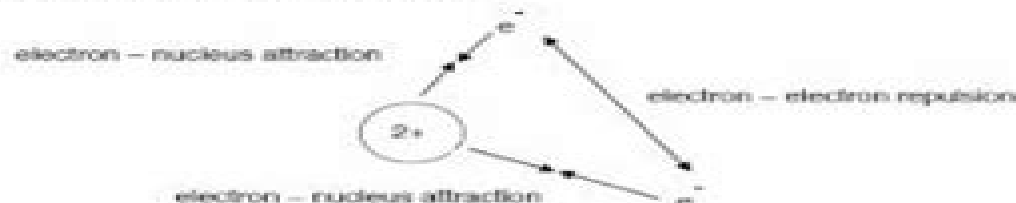
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## Model 1: Electron Ionization & Capture and Electrostatic Interactions

Reaction Equation for Electron Ionization:  $X \rightarrow X^+ + e^-$   $\Delta E = 1^{\text{st}}$  ionization energy

Reaction Equation for Electron Capture:  $X + e^- \rightarrow X^-$   $\Delta E = \text{electron affinity}$

Dominant inter-particle forces in helium:



Dominant inter-particle forces in lithium:



# Periodic Trends And Atomic Properties Pogil Answer Key

**Michael Rajnik**



## **Periodic Trends And Atomic Properties Pogil Answer Key:**

## The Enigmatic Realm of **Periodic Trends And Atomic Properties Pogil Answer Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Periodic Trends And Atomic Properties Pogil Answer Key** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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