

# 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.

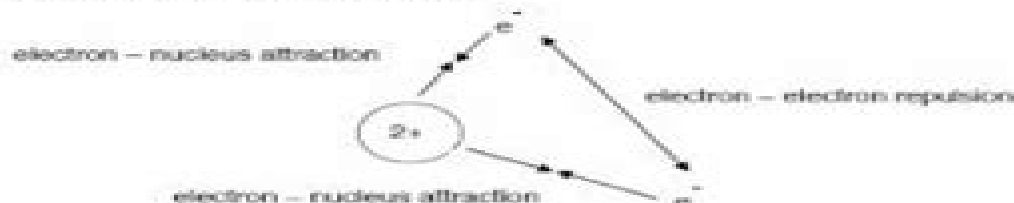
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## Model 1: Electron Ionization & Capture and Electrostatic Interactions

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

**Thomas Griffiths**



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

## Whispering the Secrets of Language: An Mental Quest through **Periodic Trends And Atomic Properties Pogil Answer Key**

In a digitally-driven earth where monitors reign supreme and immediate communication drowns out the subtleties of language, the profound secrets and mental nuances hidden within words often move unheard. However, nestled within the pages of **Periodic Trends And Atomic Properties Pogil Answer Key** a interesting literary prize sporting with fresh feelings, lies an exceptional journey waiting to be undertaken. Penned by a skilled wordsmith, that wonderful opus invites readers on an introspective trip, gently unraveling the veiled truths and profound influence resonating within the fabric of each word. Within the emotional depths of the moving evaluation, we can embark upon a honest exploration of the book is key themes, dissect their charming publishing style, and fail to the effective resonance it evokes serious within the recesses of readers hearts.

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