

# 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.

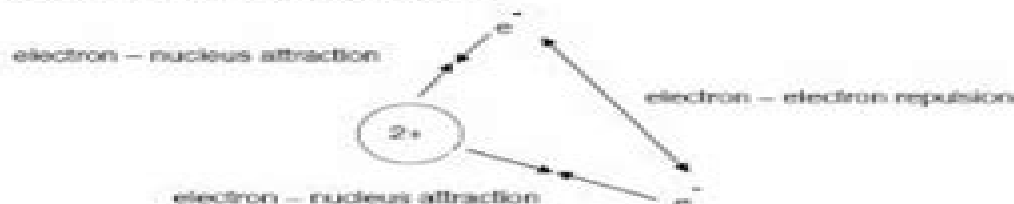
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## Model 1: Electron Ionization & Capture and Electrostatic Interactions

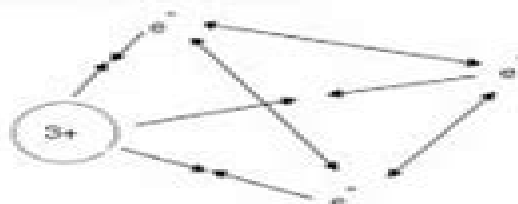
Reaction Equation for Electron Ionization:  $X \rightarrow X^+ + e^-$   $\Delta E = 1^{\text{st}}$  ionization energy

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 Name

**CL Gary**



**Periodic Trends And Atomic Properties Pogil Name:**

## Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Periodic Trends And Atomic Properties Pogil Name**

In a world inundated with monitors and the cacophony of quick transmission, the profound energy and psychological resonance of verbal beauty often disappear in to obscurity, eclipsed by the regular assault of sound and distractions. However, situated within the lyrical pages of **Periodic Trends And Atomic Properties Pogil Name**, a captivating function of literary brilliance that pulses with raw thoughts, lies an unique journey waiting to be embarked upon. Penned with a virtuoso wordsmith, this mesmerizing opus manuals viewers on an emotional odyssey, gently exposing the latent possible and profound influence stuck within the intricate internet of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is central themes, dissect its fascinating publishing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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