

# 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.

	1s	2s	2p		1s	2s	2p
H	<input type="text"/>	<input type="text"/>	<input type="text"/>	C	<input type="text"/>	<input type="text"/>	<input type="text"/>
He	<input type="text"/>	<input type="text"/>	<input type="text"/>	N	<input type="text"/>	<input type="text"/>	<input type="text"/>
Li	<input type="text"/>	<input type="text"/>	<input type="text"/>	O	<input type="text"/>	<input type="text"/>	<input type="text"/>
Be	<input type="text"/>	<input type="text"/>	<input type="text"/>	F	<input type="text"/>	<input type="text"/>	<input type="text"/>
B	<input type="text"/>	<input type="text"/>	<input type="text"/>	Ne	<input type="text"/>	<input type="text"/>	<input type="text"/>

## 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 Answers

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## **Periodic Trends And Atomic Properties Pogil Answers:**

## Unveiling the Magic of Words: A Report on "**Periodic Trends And Atomic Properties Pogil Answers**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Periodic Trends And Atomic Properties Pogil Answers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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