

# 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"/>
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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

**Henry D. Hubbard**



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

## **Periodic Trends And Atomic Properties Pogil Answers** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Periodic Trends And Atomic Properties Pogil Answers**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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