

# 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.

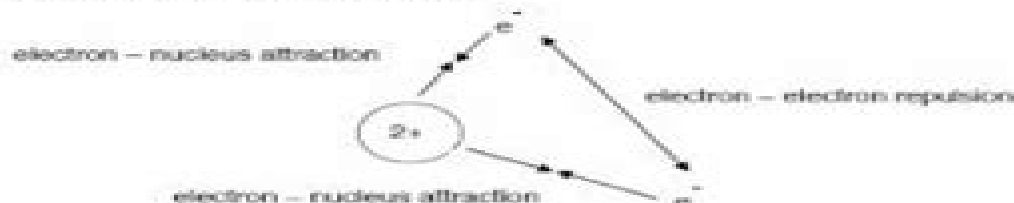
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## Model 1: Electron Ionization & Capture and Electrostatic Interactions

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:



# Answer Periodic Trends And Atomic Structure Pogil

**Joel Chaffee**



## **Answer Periodic Trends And Atomic Structure Pogil:**

**Atomic Structure and Periodicity** Jack Barrett,2002 Each text in this series provides a concise account of the basic principles underlying a given subject embodying an independent learning philosophy and including worked examples This text covers atomic structure and periodicity [Choice](#) ,2009 [The HISTORY of the ATOM the PERIODIC TABLE and RADIOACTIVITY](#) Alex Kimmons,2021-05-15 THE HISTORY OF THE ATOM THE PERIODIC TABLE and RADIOACTIVITY monochrome Chemistry is an interesting and fundamental branch of science because it gives us the chance to explain the secrets of nature What is water What do we use in our cars as fuel What is aspirin What are perfumes made of These kinds of questions and their answers are all part of the world of chemistry There is no industry that does not depend upon chemical substances the petroleum pharmaceuticals garment aircraft steel and electronics industries for example as well as agriculture all utilize the science of chemistry This book helps everyone to understand nature However one does not need to be a chemist or scientist to understand the simplicity within the complexity around us The aim was to write a modern up to date book where students and teachers can get concise information about the structure of substances Sometimes reactions are given in the detailed form but in general excessive detail has been omitted The book is designed to introduce fundamental knowledge in three areas the history of the atom the periodic table and radioactivity We will study the historical development of atomic structure theories the tendencies of elements in periods and groups and the types of emissions and uses of radioactivity *Atoms, Molecules & Elements: Patterns In the Periodic Table Gr. 5-8* George Graybill,2015-10-01 This is the chapter slice Patterns In the Periodic Table from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives [ATOMIC STRUCTURE High School Chemistry Curriculum](#) Bud Morgan,2025-07-09 Welcome to our comprehensive guide to Atomic Structure designed specifically for high school students studying chemistry In this book we will explore the fascinating world of atoms the basic building blocks of matter and delve into the complexities of their structure Chapter 1 provides a solid foundation by introducing the concept of atoms and their historical significance in the development of modern chemistry We will examine the key scientists who contributed to our understanding of atomic structure from Democritus to Thomson Rutherford and Bohr Moving on to Chapter 2 we will explore

the structure of the atom in more detail including the subatomic particles that make up an atom protons neutrons and electrons We will also discuss the concept of atomic number atomic mass and isotopes In Chapter 3 we will delve into the arrangement of electrons within an atom s electron cloud including energy levels sublevels and orbital shapes We will also discuss the principles of electron configuration and how it impacts an atom s chemical properties Chapter 4 will focus on the periodic table and how it organizes elements based on their atomic structure We will explore periodic trends such as atomic radius ionization energy and electron affinity and discuss how these trends are related to an element s position on the table In our final chapter we will discuss the significance of atomic structure in various chemical reactions including bonding stoichiometry and the behavior of gases We will also explore the importance of understanding atomic structure in fields such as biochemistry environmental science and materials science Throughout this book we will provide clear explanations helpful illustrations and interactive activities to reinforce key concepts Whether you are a visual learner a hands on learner or a theoretical learner this book is designed to meet your needs We hope that this book will not only enhance your understanding of atomic structure but also inspire you to further explore the wonders of chemistry So let s dive in and unlock the mysteries of the atom together

*Atoms, Molecules & Elements: What Are Atoms? Gr. 5-8* George Graybill,2015-10-01 This is the chapter slice What Are Atoms from the full lesson plan Atoms Molecules Elements Young scientists will be thrilled to explore the invisible world of atoms molecules and elements Our resource provides ready to use information and activities for remedial students using simplified language and vocabulary Students will label each part of the atom learn what compounds are and explore the patterns in the periodic table of elements to find calcium Ca chlorine Cl and helium He through hands on activities These and more science concepts are presented in a way that makes them more accessible to students and easier to understand Written to grade and using simplified language and vocabulary and comprised of reading passages student activities crossword word search comprehension quiz and color mini posters our resource can be used effectively for test prep and your whole class All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives

**The Periodic Table: Unlocking the Elements of the Universe (Refine and Edited)** Bala Dutt,101-01-01 The Periodic Table Unlocking the Elements of the Universe takes readers on a journey through the fundamental building blocks of matter This book provides a comprehensive and accessible overview of the periodic table detailing the properties behaviors and applications of each element From the most abundant elements to the rarest the book explains how elements interact to form compounds and how they are used in industries ranging from medicine to technology It also explores the historical context of the periodic table how it was developed and the profound impact it has had on the world of science Whether you are a student a chemistry enthusiast or someone with a curious mind this book will help you understand the essential components of the universe at the atomic level

[Chemical Periodicity](#) Robert Thomas Sanderson,2013-04-20 *The Atom* Jack Challoner,2018 Until now popular science has relegated the atom to a supporting

role in defining the different chemical elements of the periodic table This bold new title places its subject center stage shining the spotlight directly onto the structure and properties of this tiniest amount of anything it is possible to identify The book covers a huge range of topics including the development of scientific thinking about the atom the basic structure of the atom how the interactions between atoms account for the familiar properties of everyday materials the power and mystery of the atomic nucleus and what the mysterious quantum realm of subatomic particles and their interactions can tell us about the very nature of reality Sparkling text banishes an outdated world of dull chemistry as it brightly introduces the reader to what everything is made of and how it all works on the most fundamental level      **Atomic and Molecular Structure** Joel Chaffee,2011-01-15 Learn about the atom what it is the people responsible for helping us understand it and how it affects us in the world today      The Periodic Table, Atomic Structure and Valence Walter Eric Latchem,1965      Atomic Theories F.H. Loring,2014-05-09 Summarising the most novel facts and theories which were coming into prominence at the time particularly those which had not yet been incorporated into standard textbooks this important work was first published in 1921 The subjects treated cover a wide range of research that was being conducted into the atom and include Quantum Theory the Bohr Theory the Sommerfeld extension of Bohr s work the Octet Theory and Isotopes as well as Ionisation Potentials and Solar Phenomena Because much of the material of Atomic Theories lies on the boundary between experimentally verified fact and speculative theory it indicates in a unique way how the future of physics was perceived at the time of writing It thus throws into stark relief not only the immense advances made since the 1920s but also perhaps highlights the importance of not rigidly adhering to a particular program of future discoveries      **Atoms, Crystals, Molecules** Ainslie Drummond,1970      *The Periodic Table* Eric R. Scerri,2019 Eric R Scerri presents a modern and fresh exploration of this fundamental topic in the physical sciences considering the deeper implications of the arrangements of the table to atomic physics and quantum mechanics This new edition celebrates the completion of the 7th period of the table with the naming of elements 113 115 117 and 118      **Atomic Structure and the Periodic Table of the Elements** Michael H. Edmondson,John Halbrooks,1987      **The Basics of Atoms and Molecules** Tom Jackson,2013-12-15 Discusses the basic concepts of atoms and molecules      **Atomic Structure and the Periodic Table** Nevil Vincent Sidgwick,1950      *Periodic Table in Minutes* Dan Green,2016-05-19 An icon of science the Periodic Table defines the fundamental chemistry of everything in the universe In this compact yet comprehensive guide Dan Green outlines the history development and workings of the table shows how its design reflects and illuminates the organisation of all matter and even explains what it has to tell us about the chemistry of distant stars and of our own bodies Contents include an individual entry for every known element detailing properties uses and key data and sections on the patterns and groups of the famous table as well as explanations of basic chemistry concepts such as elements and compounds atomic structure chemical bonds reactions and radioactivity amongst many others      Atoms, Crystals, Molecules: Modern views of atomic structure and the periodic table

Ainslie H. Drummond,1966      **Mastering the Periodic Table** Cybellium Ltd,2024-10-26 Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT AI Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey [www cybellium com](http://www.cybellium.com)

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