

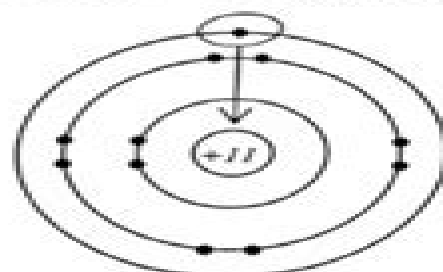
Advanced Periodic Trends

How do the particles in an atom interact to dictate periodic properties of elements?

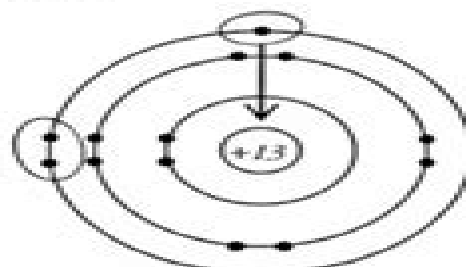
Why?

Previously you have learned about Coulombic attraction and how it governs the trends in properties among the elements of the Periodic Table. For example, as you move across a period, atoms have more protons in the nucleus, which pulls the electrons in tighter making smaller, more electronegative atoms. As you proceed down a column of the periodic table, the valence electrons get further away, and the atoms get larger and less electronegative. Inquisitive students will always ask, "If more protons in the nucleus pull electrons in tighter, then why don't atoms get smaller when going down a column?" That is a good question, and one that you will investigate in this activity.

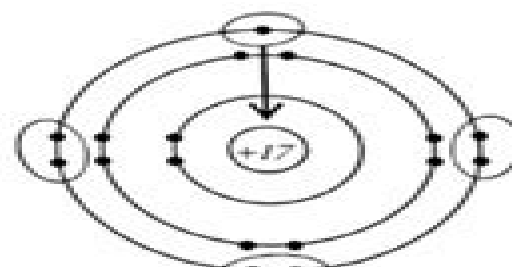
Model 1 – Period 3 Elements



Sodium



Aluminum



Chlorine

Atomic Number	11	13	17
Number of Electrons	11	13	17
Number of Valence Electrons	1	3	7
Core Charge	+1	+3	+7
Atomic Radius	186 pm	143 pm	99 pm
1st Ionization Energy	496 kJ/mol	578 kJ/mol	1251 kJ/mol
Electronegativity	0.9	1.5	3.0

1. Describe the relationship of the three elements in Model 1 with regard to their relative positions on the periodic table.

The three elements are in the same row of the periodic table.

2. Refer to a periodic table to complete the first three rows of the table in Model 1.

See Model 1.

Mini Pogil Discovering Periodic Trends

James Ross



Mini Pogil Discovering Periodic Trends:

Periodic Trends: Size and Strength James Ross, 2017-05-19 Parents and kids will enjoy learning together while reading this fun filled early reader packed with a super boost of science In this book you ll be introduced to five fun characters who will teach kids and parents alike about the periodic trends of size and strength more formally known as atomic radius and ionization energy Parents and teachers Read the For The Teacher part of this book first This will highlight what is to be learned from this book Next read this book with your student s kid s allow your student s kid s to make comments about their reading Next enjoy the learning together activities Guide your student s kid s to the intended learning conclusions Finally answer the questions at the end of the book Chemistry professor James Ross Kidprofessor created this and other science books for his own kids Knowing what areas of chemistry are challenging to his college students he wanted to offer his own kids a head start by engaging them with fun chemistry stories with unique fun characters To benefit his future college students he now offers this head start to your young reader s

Mini Pogil Discovering Periodic Trends Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Mini Pogil Discovering Periodic Trends**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Written 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 effect on readers.

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