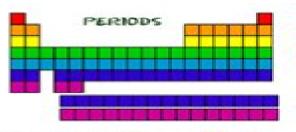
#### Unit 3 Notes: Periodic Table Notes

- John Newlands proposed an organization system based on increasing atomic mass in 1864.
- He noticed that both the chemical and physical properties repeated every 8
  elements and called this the Law of Octaves
- In 1869 both Lothar Meyer and Dmitri Mendeleev showed a connection between atomic mass and an element's properties.
- Mendeleev published first, and is given credit for this.
- He also noticed a periodic pattern when elements were ordered by increasing \_\_\_\_Atomic Mass
- By arranging elements in order of increasing atomic mass into columns,
   Mendeleev created the first Periodic Table.
- This table also predicted the existence and properties of undiscovered elements.
- After many new elements were discovered, it appeared that a number of elements were out of order based on their Properties
- By rearranging the elements based on \_\_\_\_\_\_ Atomic Number \_\_\_\_, the problems with the Periodic Table were corrected.
- This new arrangement creates a periodic repetition of both physical and chemical properties known as the \_\_\_\_\_Periodic Law\_\_\_\_.



Periods are the \_\_\_\_Rows\_\_\_\_

GROUPS

Groups/Families are the Columns

Valence electrons across a period are in the same energy level There are equal numbers of valence electrons in a group.

When elements are arranged in order of increasing <u>Atomic Number</u>,
 there is a periodic repetition of their <u>physical</u> and <u>chemical properties</u>

# **Periodic Trends Packet Key**

**Mark Steyvers** 

**Periodic Trends Packet Key:** 

#### Periodic Trends Packet Key Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has be apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Periodic Trends Packet Key**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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