

# Periodic and Groups: Valence Electrons: Mastery

## Periodic and Groups

Elements that have the same number of valence electrons have similar properties, so we put them in groups. The the periodic table groups + columns that look like this. They will see family groups 1A-18A. Hydrogen is in the same period as Helium.

Elements that have electrons in the outer shell have similar properties in the Periodic Table. Periods go left to right. Elements in the same vertical columns

Period	Group		Group					18A	
	1A	2A	3A	4A	5A	6A	7A	8A	18A
1	H 1H	He 2He	Transition metals of various chemical values					Li 3Li	Ne 10Ne
2	B 5B	C 6C						Be 4Be	Ar 18Ar
3	Al 13Al	Si 14Si						B 5B	Kr 36Kr
4	K 19K	Ca 20Ca						Ge 32Ge	Xe 54Xe

Thinking like the game "Monopoly", answer that an element is in period 4 group

What element is in Group 1A and Period 2?

What group would you find Lithium in?

What element is in Group 2, and Period 10A? (Group 2 element is always that is Column 2B. The element is oxygen)

What element is in Group 2A and Period 2?

What element Magnesium?

## Valence Electrons

Valence Electrons are the most important electrons in an atom. Each period contains has the same number of valence electrons. Valence electrons are the electrons that are involved in chemical bonding.

Hydrogen 1



1 valence electron

Helium 2



2 valence electrons

Group 17



7 valence electrons

Group 18, including 18A and 8A valence electrons. How many valence electrons will they have?

How many electrons?

Hydrogen and Helium are both in Group 1A-2Helium 2 valence electrons.

**Group 18A** - Shows you more subtle than have a full shell of electrons. Elements are in Group 18 and 18A are similar to 8 valent - 8. Helium actually has 2 valence electrons. "8 2 8, 8 18" (Only Group 18A has a full shell of valence electrons normally). 18 valence electrons will have, plus or minus 8 valence.

# Periods And Groups Valence Electrons Masses Answers

**Roman Wölfel**



## **Periods And Groups Valence Electrons Masses Answers:**

## Unveiling the Magic of Words: A Review of "**Periods And Groups Valence Electrons Masses Answers**"

In some sort of 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 "**Periods And Groups Valence Electrons Masses 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 to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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