

# 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	9A	10A	11A	12A	13A
1	H 1H	He 2He											Ne 10Ne
2	Li 3Li	Be 4Be	B 5B	C 6C	N 7N	O 8O	F 9F	Ne 10Ne	Na 11Na	Mg 12Mg	Al 13Al	Si 14Si	P 15P
3	Na 11Na	Mg 12Mg	Al 13Al	Si 14Si	P 15P	S 16S	Cl 17Cl	Ar 18Ar	K 19K	Ca 20Ca	Sc 21Sc	Ti 22Ti	V 23V
4	K 19K	Ca 20Ca											Br 35Br

Thinking like the game "Monopoly", answer that an element is in period 3 and group 1.

What element is in Group 17 and Period 2?

What group would you find a chlorine in?

What element is in Group 2, and Period 10? Element 2 is in Group 18 is Chlorine 17. The element is oxygen.

What element is in Group 2A, and Period 2?

What element Magnesium?

## Valence Electrons

Valence Electrons are the outermost 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

Lithium 3



3 valence electrons

Hydrogen and Helium are both in Group 1A-18A. Hydrogen is in Group 1 and Helium is in Group 18.

Group 1A, Lithium 3A and Group 18A. Helium is in Group 18A. Helium is in Group 18A.

What group Helium?

Group 1A - Elements have one valence electron. Group 2A - Elements have two valence electrons. Group 3A - Elements have three valence electrons. Group 4A - Elements have four valence electrons. Group 5A - Elements have five valence electrons. Group 6A - Elements have six valence electrons. Group 7A - Elements have seven valence electrons. Group 8A - Elements have eight valence electrons.

# Periods And Groups Valence Electrons Masses Answers

**Oswaal Editorial Board**



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

The Enigmatic Realm of **Periods And Groups Valence Electrons Masses Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Periods And Groups Valence Electrons Masses Answers** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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