

ATOMS, MOLECULES AND RADICALS

SUBJECT-CHEMISTRY CHAPTER NO- 4 Relationship between valency of elements and the Periodic table. PERIOD-4

CHANGING YOUR TOMORROW

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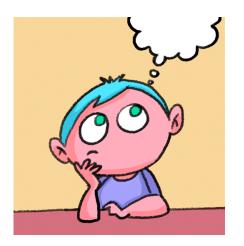
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LEARNING OBJECTIVE

Students will be able to

- Know about the Periodic Table.
- Get aware of the valency of some elements.
- Know about the Relationship of the valency of elements with the Periodic table.







WARM UP QUESTIONS

- Activate prior knowledge by asking students what do they mean by valency.
- After listening to their responses, test their knowledge on the valency of some elements.
- Guide them and show the relationship of the valency of elements with the Periodic Table.





PERIODIC TABLE

- Periodic Table is a tabular arrangement of elements in vertical columns and horizontal rows indicating the regular trends in the properties of elements.
- The table consists of 118 elements known to us.
- These elements are arranged in 18 vertical columns called groups and 7 horizontal rows called periods according to the IUPAC system.





VALENCY OF SOME ELEMENTS

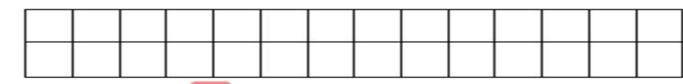
NAME OF THE ELEMENT	SYMBOL	VALENCY
Hydrogen	Н	1
Helium	Не	0
Lithium	Li	1
Beryllium	Be	2
Boron	В	3
Carbon	С	4
Nitrogen	Ν	3
Oxygen	0	2
Fluorine	F	1
Neon	Ne	0
Sodium	Na	1
Magnesium	Mg	2
Aluminium	Al	3
Silicon	Si	4
Phosphorous	Р	3
Sulphur	S	2
Chlorine	CL	1
Argon	AVV Edit with WPS Office	0
Potassium	ĸ	1
Calaium	Co	2



RELATIONSHIP BETWEEN VALENCY AND VALENCE ELECTRON

Valence Electrons in Each

1	Ĩ	G	ro	up									2
1	2							3	4	5	6	7	8
1	2							3	4	5	6	7	8
1	2							3	4	5	6	7	8
1	2							3	4	5	6	7	8
1	2							3	4	5	6	7	8
1	2							3	4	5	6		







WATCH A VIDEO ON PERIODIC TABLE

<u>https://youtu.be/rz4Dd1I_fX0</u>





HOME ASSIGNMENT

- Exercise Q1 (d), (e), Q6, Q12, Q13
- Expand IUPAC
- Define group in a periodic table.
- Define a Period in the periodic table.





THANKING YOU

ODM EDUCATIONAL GROUP



