

ATOMS, MOLECULES AND RADICALS

SUBJECT-CHEMISTRY

CHAPTER NO- 4

Relationship between valency of elements and the Periodic table.

PERIOD-4

CHANGING YOUR TOMORROW



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.



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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.



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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.



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VALENCY OF SOME ELEMENTS

NAME OF THE ELEMENT	SYMBOL	VALENCY
Hydrogen	H	1
Helium	He	0
Lithium	Li	1
Beryllium	Be	2
Boron	B	3
Carbon	C	4
Nitrogen	N	3
Oxygen	O	2
Fluorine	F	1
Neon	Ne	0
Sodium	Na	1
Magnesium	Mg	2
Aluminium	Al	3
Silicon	Si	4
Phosphorous	P	3
Sulphur	S	2
Chlorine	Cl	1
Argon	Ar	0
Potassium	K	1
Calcium	Ca	2



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RELATIONSHIP BETWEEN VALENCY AND VALENCE ELECTRON

Valence Electrons in Each Group

1																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		



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WATCH A VIDEO ON PERIODIC TABLE

- https://youtu.be/rz4Dd1I_fX0



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HOME ASSIGNMENT

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



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THANKING YOU

ODM EDUCATIONAL GROUP



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