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(c) Screening effect : Higher is the screening effect on the outer most electrons causes less attraction from the nucleus and can be easily removed, which is leading to the lower value of Ionisation Potential

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Ionisation Potential x
                       Screening effect
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- (d) Penetration power of sub shells :
- (i) Order of attraction of subshells towards nucleus (Penetration power) is -

s>p>d>f

(ii) As subshell is more closer to nucleus so more energy will be required to remove e' in comparision to p,d & f. Ex. Be B

1s2, 2s2 1s2, 2s2 2p1

Ionisation Potential Be > R

After loosing one e', B attains electronic configuration of Be, so II<sup>nd</sup> ionisation potential of B is more than

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Be. II<sup>nd</sup> Ionisation Potential of B > Be
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(e) Stability of half filled and fully filled orbitals

Half filled p3,d5, f2 or fully filled s2, p6, d10, f14 are more stable than others so it requires more energy. (i) Ex. N 0

1s<sup>2</sup>, 2s<sup>2</sup> 2p<sup>3</sup> 1s<sup>2</sup>, 2s<sup>2</sup> 2p<sup>4</sup> I<sup>#</sup> Ionisation Potential order is O < N Because of half filled p-orbitals in N, its ionisation energy (stability) is higher than O.

l<sup>et</sup> ionisation potential order Na < Al < Mg

(ii) Because s-orbital in Mg is completely filled and its penetration power is also higher than p-orbital (Al).

II<sup>nd</sup> ionisation potential order Mg' < Al' < Na\* (2,8,1) (2,8,2) (2,8)

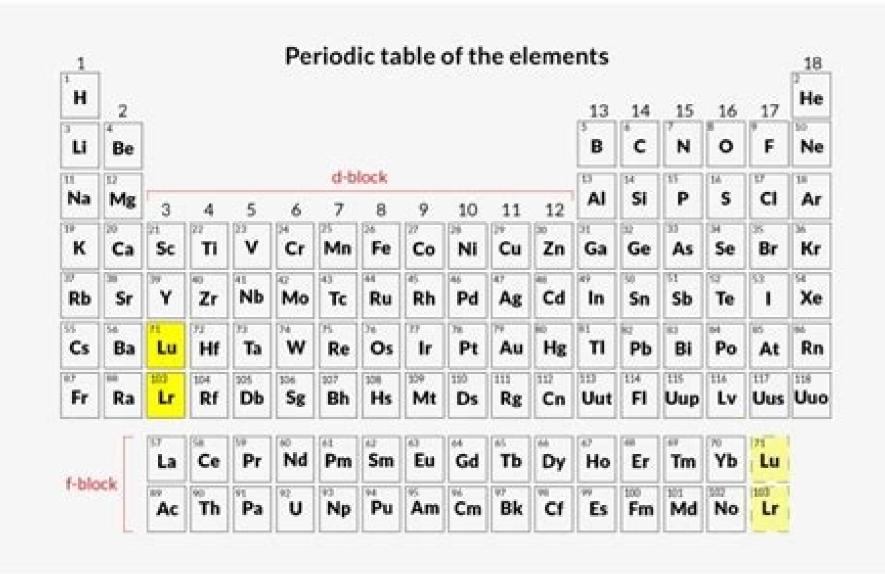
# Periodic variation of ionisation energy

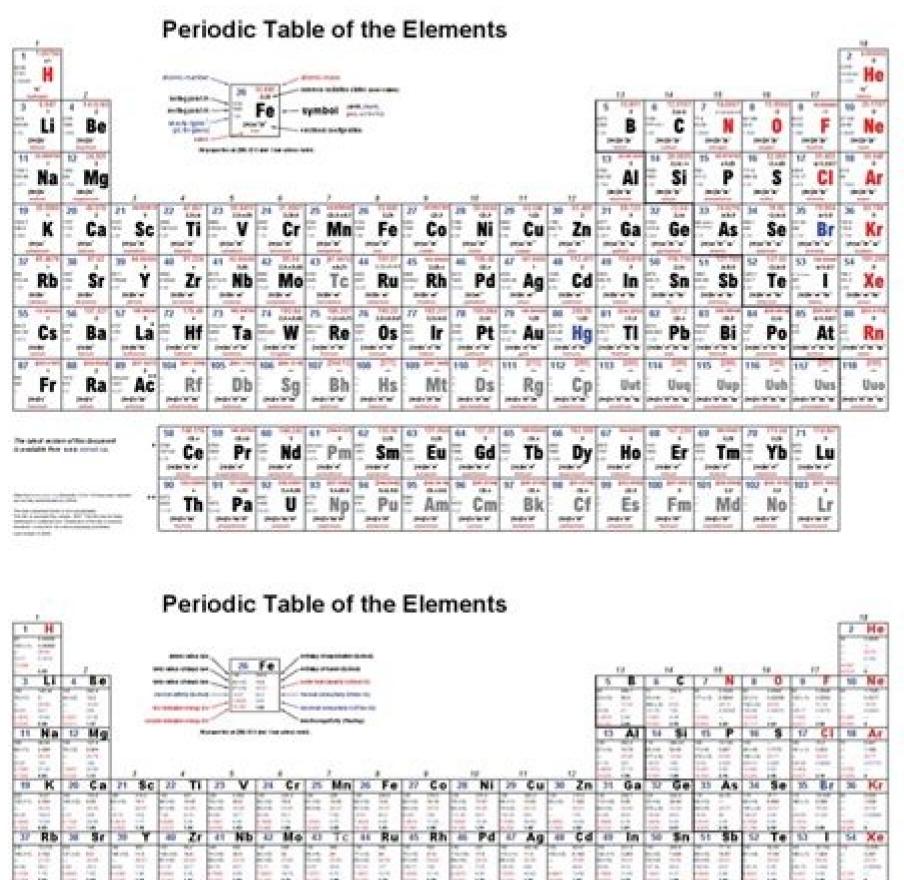
- (a) Variation in period among the representative elements: Ionisation energies generally increases along the period because in moving left to right in a period the effective nuclear charge per outermost electron increases while the corresponding principal quantum number remain same.
- (b) Variation in a group among the representative elements : The ionisation energy generally decreases in moving from top to bottom because the size increases due to the increase of the principal quantum number. On the other hand the effective nuclear charge Zeff for the outermost electron remains almost the same along the group.

Exception

- (a) Ionisation Potential of Al < Ionisation Potential of Ga (While Ionisation Potential decreases down 577 kj mol-1 579 kj mol-1 the group it is due to Transition contraction)
- (b) Ionisation Potential of HIP Ionisation Potential of Zr | (While Ionisation Potential should decreases down 674 ki mol<sup>-1</sup> 4d the group. It is due to lanthanide contraction ) 760 kj mol-1 5d
- (c) In a period atomic size decreases and zeff increases so removal of electron becomes difficult and ionisation potential increases. But N, Be, P, Mg, show high ionisation energy than corresponding of next element. Li Be B C N O F Ne

atomic size decreases, zeff increases, Ionisation Potential increases. Order of ionisation potential Li < B < Be < C < O < N < F < Ne





				ALC: NOTE: N																															
95	6.6	56	8.8	1.94	1	6.6	18	Hr	12	Ta	11	W	10	Re	14	0.5	37	46	18	Pt	79	Au.	- 89	Hg	41	TL	42	Pb	83	81	84	Pe	.85	AL	
	1.0	Frank	1.	1.			A	-	See.	24.1	F-+-	10	Perce.	10			in a		1.0	-	- 10 C	54 I	1.0	1.00				1.00	F	14	F-4	200	1.00	100	
	100	Test.	100	E.,				100	100	100	the l	100	1.1	22	Sec. 1	22.1	10.0	100	100	2.2	in the second	100 C		100	100	100	100	25	the state	100	Sec. 1	-	and and		Ŀ.
-	12	1000	100	100	1.2		100	100	- 100	20	-	-		12.1		22		22		22	-	10	1000	2		12	1	12	-	11	1.11	12	100	100	b-
10	Fr	100	Ra	1.0	1	ÂĊ	104	RT	105	05	106	80	167	8h	100	Ĥĸ	105	THT.	116	84	111	Re	102	20	113	<b>U</b> ut	116	Veg	115	Une	116	Units	10	Uut	tr.
		1	1	12.	-		-	-		-		-	<u> </u>	-	-		-	-	-		-	-			-	-	-	-	-	1		-	1	-	tr
1	2.1	1.00	100	1.			-	10		22.7			E													5.0	÷		-				E		E.
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							54	Ce	59	Pr	1.68	Nd	T at	Fre	-	5m	i in i	Eu	-	Gđ	45	Tb	66	Dy	67	Но	-	Er	69	Tm	19	Yb	In	Lu	1
			e de sare				1	1000	19	1010	-	Nd	11	Fm	4	Sm	40	Eu	-	Gd	45	ть	66	Dy	<u>87</u>	Ho	68	Er.	69	Tm	79	Yb	n	Lu.	1
			o de cueres				58	C.	50	Pr		Nd	41	Pm	42	Sm	<u>10</u>	Eu	<u>88</u> 24	Gd	45	ть	<b>66</b>	Dy	82	Ho	-	E.	49 2.2	Tm	29	Yb	n	Lu	
							1	1000	1	1010	-	Nd	-	-	2.1.	Sm	0	Eu		100		ТЬ	-	Dy	82	Ho			a	Tm	8 11-1	Yb	7.1	Lu	
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(v) Vertical columns are called groups and there were 8 groups in Mendeleev's Periodic table.

(v) Each group upto VII<sup>®</sup> is divided into A & B subgroups A<sup>\*</sup> sub groups element are called normal elements and 'B' sub groups elements are called transition elements.

(vii) The VIII<sup>n</sup> group was consists of 9 elements in three rows (Transitional metals group).

(viii) The elements belonging to same group exhibit similar properties.

(c) Merits or advantages of Mendeleef's periodic table :

(i) Study of elements : First time all known elements were classified in groups according to their similar properties. So study of the properties of elements become easier.

(ii) Prediction of new elements : It gave encouragement to the discovery of new elements as some gaps were left in it.

Sc (Scandium) Ga (Gallium) Ge (Germanium) Tc (Technetium)

These were the elements for whom position and properties were well defined by Mendeleev even before their discoveries and he left the blank spaces for them in his table.

Ex. Blank space at atomic weight 72 in silicon group was called Eka silicon (means properties like

silicon) and element discovered later was named Germaniur Similarly other elements discovered after mendeleef periodic tabel were.

Eka aluminium - Galium(Ga) Eka Boron - Scandium (Sc) Eka Silicon - Germanium (Ge) Eka Mangense - Technetium (Tc)

(iii) Correction of doubtful atomic weights : Correction were done in atomic weight of some elements

### Atomic weight = Valency Equivalent weight.

Initially, it was found that explosion weight of Be is 4.5 and it is travalent (N = 33, so the weight of Be was 13.5 and there is no space in Mondeleve's table for this element. So, after correction, it was found that Be is actually divident (N = 23). So, the weight of Be became 2 -4.5 = 9 and there was a space between Li and B for this element in Mondeleve's table.

- Corrections were done in atomic weight of elements are - U, Be, In, Au, Pt.

### (d) Defects of Mendeleef's Periodic Table:

(i) Position of hydrogen is uncertain. It has been placed in IA and VII A groups because of its resemblance with both the groups.

(ii) No separate positions were given to isotopes.

(iii) It is not clear whether the lanthanides and actinides are related to IIA or IIB group.

(iv) Although there is no resemblance except valency of subgroups A and B, they have been put in the same

(v) Order of increasing atomic weights is not strictly followed in the arrangement of elements in the periodic table. For e.g. - Co (At. vet. 58.9) is placed before I (127) and Ar (39.9) before K (39).

```
CIOH
Ex.
                             NaOH
                                          3.0
                            0.9
                                          Acidio
              Nature
                            Basic
                                          then AO bond will be more polar and will break up as
 (iii) If X_A - X_0 \ge X_0 - X_H
       A \longrightarrow OH \longrightarrow A^{*} + OH^{*} It shows basic nature
(iv) If X_A - X_O \le X_O - X_H
       A - O \longrightarrow H^{-} + AO^{-} It shows Acidic nature
Ex. In NaOH
              X_0 - X_{N_0} (2.6) > X_0 - X_{N_1} (1.4) So hydroxide is basic
       In CIOH
              X_0 - X_0 (0.5) \le X_0 - X_{tt} (1.4) So hydroxide is acidic
       Nature of oxides : Consider an oxide AO
             X_{A} - X_{A} > 2.3
                                          Basic oxide
             X_{A} - X_{O} = 2.3
                                          Amphoteric oxide
       If
            X_{1} - X_{2} \le 2.3
                                          Acidic oxide
       Along a period acidic nature of oxide increases
       Down the group basic nature of oxide increases
            Na.O Mao Al.O. SO, P.O., SO, C.O.
             X_{h} - X_{0} > 23 X_{h} - X_{0} = 2.3 X_{h} - X_{0} < 2.3
                 Basic
                                  Amphoteric
                                                          Addic
       ie. when in periodic table the distance between the element and oxygen increases, basic character
       increases
       NO, > ZnO > K,O
       acidic character decreases
Note: BeO, Al<sub>2</sub>O<sub>3</sub>, ZnO, SnO, PbO, SnO<sub>2</sub>, PbO<sub>2<sup>st</sup></sub> Sb<sub>2</sub>O<sub>3</sub> etc. are amphoteric oxides.
       CO, H<sub>2</sub>O, NO, N<sub>2</sub>O etc. are neutral oxides.
         Acidic strength of oxide and oxyacid x Electronegativity
       B<sub>o</sub>O<sub>3</sub>
                    CO.
                                   N.O.
        EN increase, acidic nature increasse.
  SO3 > SeO3 > TeO3
                                     HNO<sub>3</sub> > H<sub>2</sub>CO<sub>3</sub> > H<sub>3</sub>BO<sub>3</sub>
                                                                         HClO<sub>4</sub> > HBrO<sub>4</sub> > HIO<sub>4</sub>
  H2SO4>H2SeO4>H2LeO4
                                    H_3PO_4 > H_3AsO_4 > H_3SbO_4
                                                                        N_2O_5 > P_2O_5 > As_2O_5
  H2SO3>H2SeO3>H2LeO3
                                    HOF > HOCl > HOBr > HOI
                                                                        N2O3 > P2O3 > As2O3 > Sb2O
Acidic properties increases with increasing oxidation state of an element when centrel atom is same. Ex.
```

(i) Sb<sub>2</sub>O<sub>5</sub> > Sb<sub>2</sub>O<sub>3</sub> (ii) HClO<sub>4</sub> > HClO<sub>3</sub> > HClO<sub>2</sub> > HClO

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