Non-metallic Ondes: NOLO MAZO ALO3 Stor Pros SON CI207 Basic Amphateric Bodic avides

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-> Out of 118 elements more than 90 are metals. - Metals on left and bottom of periodic table. -Top right has non-metals. And metalloids are steps of stairs in between.

## · Melting Point & B.P. :-

MP is a temperature and is Notesale.co. Temp at white Old converting and inquid. substance co-exist together-"Temp at which liquid converts into vapours is called BP" Temp at which V.P of liquid become equal. to external P."

## Solid M.P. Liquid B.P. Gas

. How strong particles are bound is given by "M.P." inde · TP M.P.E. B.P. ~ Strength of attractive forces. · Cor MP ise decided by - Strength of attractive forces Ben + structure of lattice. . No

10 2A . ONLY B.P. (6A75A) O>N In 3rd Period : both M.P. EP B.P. of (GA>5A) SEPPA Exception of M.P 2-UA Exc These are linear, discrete, Non-polar small molecules Be L (NO 7 00 7 00 7 ONE Ma Size going to dec. LDFL, MPL ca Li St Exception in B.P. :- N2 = (-196 °C) P, O2 = (-183 °C) 1 80 Ra - For metal, M.P. /B.P. decrease in group ( Sizet, M.P. 1) -- **TI** A · For non-metal, M.P./B.P. increase in group (LDF1, size T, MP) VA 0, 76A75A7 Sa le.co.u Period 3: IA DA DA DA VA VA VIA VIIIA Mg Al Si 5 P Na 44 1430 660 649 MP ( \*2) 98 Flect M.P. a M-P. Ronnia Increases N froutention - 0 clure\_side through · Silicon + Ones lamond\_ face-· Preio centered cubic and actahedral structure like diamond. @IA, Non-metals exist as P4, Ss, Cl2, Ar B.P. Se has smaller size than Pq o fe @ IB Soi LDF1 & M.P also 1 -Extr 14 ġ. Down the Group :-3 VA, Period- 3 IA IA () Tran " M.P. & B.P. in these decrease from ti Be Na 3d-s Ma top to bottom as charge Isize tells K Ca EC that size 1 so, M.B + and M.P.+ Bb Sr CS Ba 15 in 1A-Er. Ra

- In elemental form "zero" O.S. They form di-positive ions in their comp. M -> M2++2e-. - Alkali metals are called Photo-metals but IA are not called it bcoz IA has low I.E. - Ionization Energy : to period : I.E.E.A.E.N. Increases · So; I.E. of ITA is greater than IA. Reachivity & 1/Ionization Energy - IA, IIA are most reactive in whole PT. But IE of ITA is greater than IA So; reactively 1217 711 streoth" but - High Reactivity and "Reducing Qe comparitevly less that alkali metalo -> DI Chreases Dade group -> IA have highest 2nd I.E. and IIA have highest 3rd T.F. - Electronegativity :-(basic) Metals have low E.N. values. Be (1.5), Mg(1.2), Ca(1), Sr(1), Ba (0.9) KIA - Be has greatest E.N., having smallest radius and highest E.N. and I.E. JF E.N.T, covalent character T - M.P. & B.P. .. · Generally, M.P. & B.P. decrease clown the