classante	
C Page 0	Classmate Dorts Page
Stateme of period & group where will you locate the 17th group period - 7 group - 14 Clock - P Lieby do Elevents in the same group have similar and chamical properties? The Elevents in a group have valence thell electronic configuration and hence have similar physical and chamical properties	Atomic Radii- from left to right across a period generally decreases due to therease in Effective nuclear charge from left to right across a period Il what do you understand by the Electronic species? Now a Species that will be no Electronic with Each of the following atoms / Jone (i) F (ii) AT (iii) ty 12 (iv) Rb sus the Electronic species are those species (dome/ rone) ushid have some somewher of Electrone. Iso Electronics
I what does atom making Fonic radius really means to you any thomas fadius. Internet between the centre of moderns to the auternest shoel of Electrons in the atom any flument is called Bromp's fadius tradicion to Estimated by measuring the distance between cotions and curions in termic mystals.	(a) Not will Not the following effection: (b) Arrange Hum in order of turnessing Janic radic as All of these tames are no of flethern within the
them do stavie radius vary in a found and in a group? them do you explain the variation? and with a group stavier rodius survivarie down the group Reason - this is due to continuous increases in the	(b) In Isoleotronic officies, greater the nuclear change, lesser well be the alarmic or tenis radius At 12 x Mg 12 < No+ x F x 0. x x 12 = 1 Septem toly cations are smaller and arrions larger in
hunder of Electronic shells or orbitals numbers in the the structure of sterns of the Elevente deven a	radii than their parent atoms: A cation is smaller than the parent atom because it has fewer sharkoms ushaile its mustar change remain the same. The size of anion will be larger than that of purent along because the addition of one or more sharkoms would result in the recised among the sharkoms and a decrease in Efficience

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		CLASCAACE. Cate
15 Energy of an Elichan in the ground state atom is -2-18 x 10 185. Catantote the Longition Enthapty of	<u>I</u>	How would you Explain the fact the first is nizotion tuthalpy of Sodium 11 leaser than that of Nagoresium but its example than station futhalpy is higher than that of magnesium?
any The Law inter Enthalter of I make atoms. Therefore	ave	suctionic configuration of Na and his
as & (ground state) = -2.18 × 10-18 7 × 6.522 × 10° = -1.312 × 10° J		Mg - 152 262 205 202
Formation entropy = 0 - (-1.312 × 10°) = 1.312 × 10° Junet		first Election in both cases has to be removed from as orbital but the nuclear charge of Na(HI) is lower. Than of Mg (+102) therefore first ionization sungy of sodium is lower than had a manufactured.
to bring the second paid thements, the actual familyation		Sodium is cower than that of magnesium. After the box of first election, the election configuration. Na+ - 152 83+ 896
Entropies are the order: Li < B < B < 0 < K < F < Ne Explain voly		Mgt - 15-25-29-351 Here Not has Attained Ne confrigation which is
i) Be has higher DH, How B ii) O has lower DH, Ham N and F?		very stable and hence hemoval of second require
Le contribut volide in B (15° 25° 2p1) it is prosent in Le contribut volide in B (15° 25° 2p1) it is prosent in Le orthird Lince 2s - fleation are more shoughy	18	Enthalfy of the various factors due to ushich the provigat
attracted by the nucleus than ep- Elections, therefore leaver amount of Energy is required to	aus	down the group? is Streng / Shidding Effect
room on a 29 - Electron than a le - Cleation.		
(ii) the Electronic Configation Ny = 15 25 2p 2py 2pz O8 = 13 25 2p 2py 2pz		
we can observe in case of witnessen ep-priviled One Excelly half to filled Therefore it is difficult		Could be to the second of the
to semove an election from M from O.		

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Date Page		classwate Date Page
The first ionigation Enthough values (in KJ mol-) of grip 15 Plumints are B Al yn In \$1 T1 801 577 579 558 589 Home would you Explain this deviation from the general brend? The decrease in A.H., value from B to Al is due to the biggen size of Al. In acts go ture is 10 d' electron ustale does not cereen as is done by s and P electron. The same is to the way foor suithing Effect. This also increases the effective values of Ditti increases	22	(ii) The reason for deviation is due to the smaller of F. Due to Its small size, the Electron repulsion in the relatively compared of Subshell are comparatively large hence the attractive for incoming thether is test in the case of c. What is the basic difference between the terms thether gain turbulpy and electro regardinely? Yellstron gain thereon Enthalpy refers to an Isolated gaslow atom to accept an additional thection to form a regative for whereas Electronegativity refers to tendency of the atom of an Element to attract shared pain of Electron towards in a covalent learner.
which of the fellowing pain of Elements would have to more regative element gain Enthalpy. (i) Out F ii) For cl (ii) Both O and F lie in I'm peoplet pained. As we make from 0 to F the atomic size decuased. Due to smaller size of F unclear charge increases. Further, grain of one Electron by, F > F For ions has west gas confrigation, while the gain of one Electron by Orive which which does not have stable inset gas confrigation, Ban Sequently, the Europy released is much higher in going form. In other wood electron gain Enthapty of F is much more negative than that of Oxygen.	23 cure 24	More would you seart to the Statement that the Electo- usgatively of N on pauling Scale is 30 in all the wirogen compounds. On pauling Scale, the Electronegatively of Nitrogen (3.0) Indicated that it is sufficiently Electronegative But it is not correct to say that the Electronegativity of nitrogen in all the compounds is 3. It deposed on state of Hybridisation - more is the schools in wore will be the Electronegativity What you expect the first ionization enthodics of two potops of the same elements to be the same I different I Austrity toniustion Enthology among the first ionization depends ource isolopes of an Elements wave the same electronic and Same nuclear charge, they have same ionigation

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	Classaute Date		
			Classmate Orde
	11/4/2011		
	S what are major difference between metal & non metal	29	
	Nachal I New Medica		is the Nactor to be treather among group I werent
1-	1. Have shong tendancy to 1. Non nutale have a strong lose flections to hom tendency to accept Eliette		
V-		ans	The Elements of Group I have only one Election in Hisir
1	Cation to form culians Notation to form cultar are shong Reducing		and Hust being a strain ! !
1	agents are shory radius agent.		the tendency to been blocked to
	. Natal have love societion 3. Non metal have high		un depends upon the consistion tuthabus the
	Entrapies soughter soughter		wheat with the tron partivity. Since both of them dearen de
- 4	· Metal form basic oxider 1. Non metals from acidic		donon the group, the reactivity decreases
	and toute company oxides and covalent	3/0	Newson II a back of the second
	gomperd.		Assign the position of elemente having outer Electronic
- 2	L the periodic table and find and embedded		in NS-NPY for N=3
	is Elentify the Element with 5 shortons in order v		Wilned not for N=4
	in Identify the Element that would fend to lose two	4	iii) (n-2) f (n-1) d'ns for n=6 in periodic table?
	Elevents	ary	is p-black
-	is Edentify the Element that belong tout to gain two		group-16 y Sulphur
	Elevante.		3-rd poined
-	in Elements belonging to Kitrogen family (group 15) witrogen		(ii) 4th period ? Titarium
-	(ii) flowerth (slarging to Alkaline faith family (group 2)		group 4 J
-	Maguerium		(iii) 16th period ?
-	in stement belonging to Oxygen torruly (group 16)		+ block goddin.
-	Oxygen		grows 5
1			Jan Le about Louis
~ 28	Write the general Electronic configuration of signal and	31	chosse the Justice oftion
n	f-those elements?	(b)	DW-3 (E) 170 h DW-9 100 E
- and	& 8- Alock Glements: Ns'- where n=2-7		of & Steatroms can occupy all the orbitals in a d-sub-
	iii) p - Block alements : NETup - (11)		Shell.
	(in) d- Not ellerent (N-1) d 1-100-2 11 10 11 2		
	cir) + - block statuouts (n-2) + 0-14 (n-1) d 0-185 where n = 6-1		
	as write n =6-1		

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Q Date Page	22 10 84 Classaute Classaute Company Classaute Classaute
in wind Ledicate	
33 In modern periode Fable, the period Sudicate	1) Becl is a polar compound yet Becl is a non polar
(c) principal quentum number	compund,
	2) Show or and it bond formation in Cotto, Cotto, Cotto
33 Predict the formulas of the stable Kingy compounds	byour Othern dicionaries oun lector on time
Prelict Hu formulas of me southingtion	3) Acount for discreping in board angle
that would formed by the service	a) ZHOM in water
OM (4) 710	a) Zhira w NH
(b) Hg3N,	4) compare the bond order and relative stability of
(d) 210,	(i) 02, 07, 02- 02+ 02+ (ii) 12, 12+
(e) PEt	
(f) fufz	Endich the magnetic character
M KM 3	5) Define Resonance, draw the resonance structure of
	6) Define Hybritakon is &F
35 drugting that Sufference the valence Electrons will after	7) In Pol- an all the P-of bond same?
the chamistry of Element	8) Define Hydrogen bond give condition for formation of H bond.
au (c) Nuelear mall	of H band
The state of the s	9) Discuss it types and give suitable eq
36 The six of iso steethonic species F, Ne and No is	0 0
affected by) Bed, is non polar because of the symmetrie Structu
ous (a) Nuclear charge	it's structure in linear so the Diopole moment :
A SALE ALLER	the compound becomes or the force of attraction
31 which of the following statement is incorrect in	of election of both dilarine atom neutralises.
relation to benization Eutholpy >	
(d) Removal of Electron from orbitals bearing lower 1	cl = sc = (d).
value is gazier than form orbital howing higher is	Electro regativity
value.	So Be-d polar bond and operall it is non-
	polar legad.











