

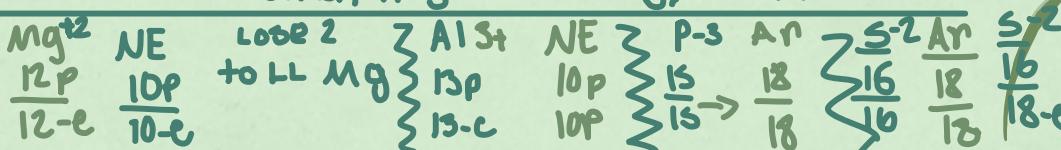
How Elements form Ions

Ions- Atom that has gained or lost electrons, this means

it has net electron charge. Periodic = equal

11p 10p it must lose one electron to look like neon

11-e 10-e when it gains its neg/when it needs it pos



Picture

positive ions: Cations, you add ion to the end of the name (Not connected!) Aluminium ions

Negative Ions: you change the ending to
(ide) ion (anions)



Ionic Bonds

attraction between oppositely charged ions.

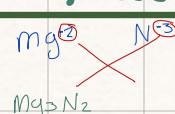
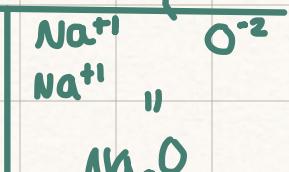
metals = pos

If they cancel
there is no
Number

Atomic Compounds

- Metal + nonMetal
 - Crystalline solid
 - high melting point
 - Conduct electricity in water & when molten

1 2 3 4 3 2 1



Binary Ions Compounds



monatomic ions

one atom change

Polyatomic ions

OH^-

If you have more anions you

NO_3^-

will put them in ()

PO_4^{3-} - Phosphate $\text{O}-\overset{\circ}{\text{P}}-\text{O}$

Picture

	Cl^-	F^-	P^{3-}	S^{2-}	O^{2-}	
K^+ potassium ion	KCl	KF	K_3P	K_2S	K_2O	
Mg^{2+} magnesium ion	MgCl_2	MgF_2	Mg_3P_2	Mg_2S	MgO	
Sr^{2+} strontium ion	SrCl_2	SrF_2	Sr_3P_2	Sr_2S	SrO	
Al^{3+} aluminum ion			AlCl_3	AlF_3	AlP	Al_2S_3
						Al_2O_3

Ternary ions
Compound

(3+ Clots)

Al^3+ NO_3^-
 $\text{Al}(\text{NO}_3)_3$

summary

