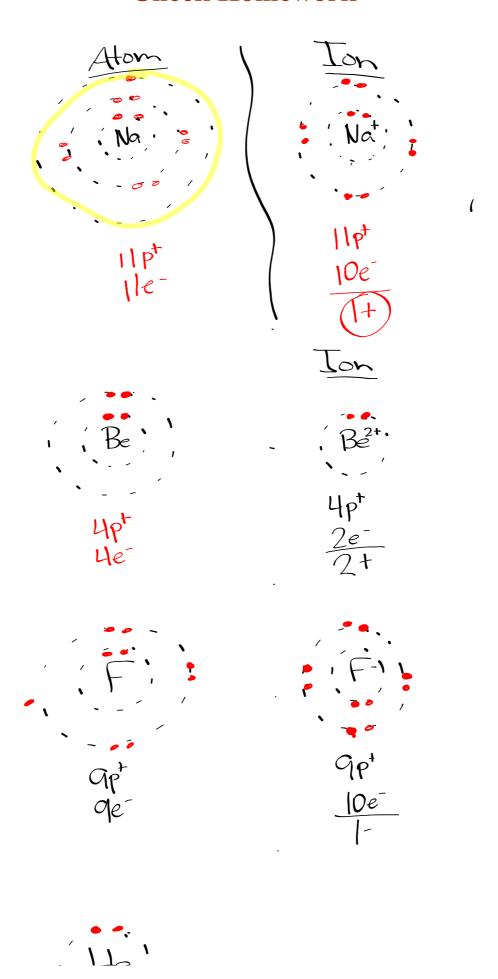
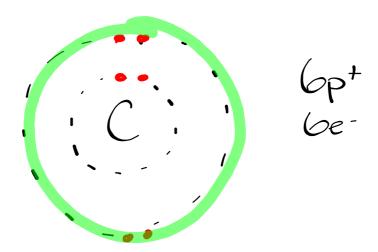
Check Homework





Review of Terms...

<u>ion</u> - charged atom in which the number of electrons is different from the number of protons.

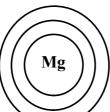
An atom that gains or loses one or more electrons becomes an ion.

Ex. F- (9 proton, 10 electrons)

<u>ionic charge</u> - numerical value of the electric charge with a plus or minus sign

Ex. F \Rightarrow ionic charge of 1-

Mg²⁺⇒ionic charge of 2+

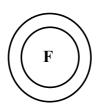


When magnesium loses two electrons, it become Mg (12 protons, 10 electrons). It is now has a stable arrangement of electrons.

e-

e-

This is called a magnesium ion.



When fluorine gains an electron, it has a stable electron arrangement, the same as neon (Ne). We call the Fion a fluoride ion.

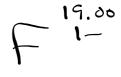
When nonmetals gain electrons to form ions, the name of the ion changes its ending to "ide".

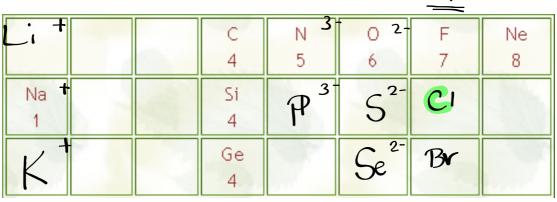
⇒fluorine atom becomes a fluoride ion

Valence Electrons

<u>valence electrons</u> the electrons in the last shell or energy level of an atom.

- show a repeating or periodic pattern
- increase in number as you go across a period
- when you start the new period, the number drops back down to one and starts increasing again





Look at the group number!

Exercise

Skip 7 boad

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		C 4	N 5	O 6	F 7	Ne 8
Na 1		Si 4				
		Ge 4				