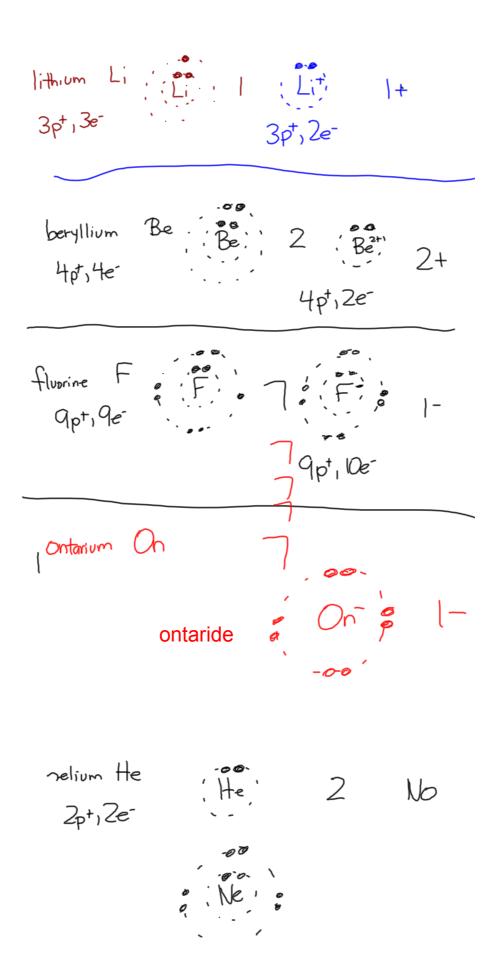
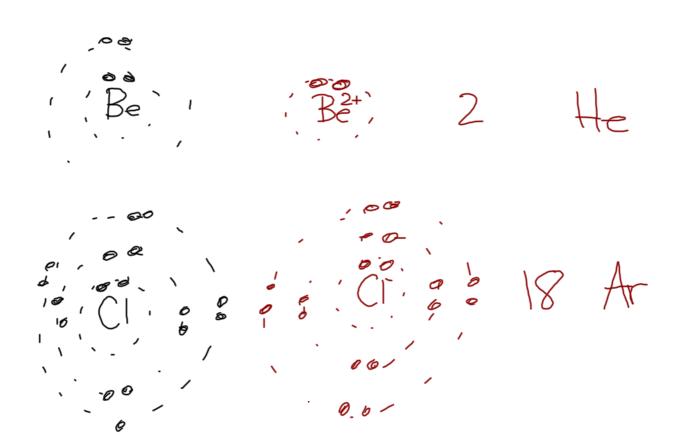
Check Homework





Review of Terms...

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

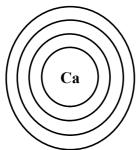
An atom that gains or loses one or more electrons becomes an ion.

Ex. F (9 proton, 10 electrons)

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

Ex. $F^- \Rightarrow ionic charge of 1-$

Ca²⁺⇒ionic charge of 2+



e

All metals will lose electrons to form a stable ion, which is positively charged.

Ex. Na Na⁺ sodium atom sodium ion

All nonmetals will gain electrons to form a stable ion, which is negatively charged.

Ex. F F- flourine atom 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

		C 4	N 5	0	F 7	Ne 8
Na 1		Si 4				
		Ge 4				

Look at the group number!

Exercise

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		C 4	N 5	0	F 7	Ne 8
Na 1		Si 4				
		Ge 4				