p. 187 #1-4

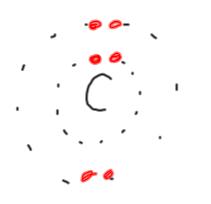
Ions

- elements are willing to give up or gain e in order to have the appearance of a filled outermost orbital
- when e⁻ are gained or lost, an atom is then called an **ion**
- an ion is an atom with a positive or negative charge
- the ionic charge is the numerical value of the electric charge with a plus or minus sign

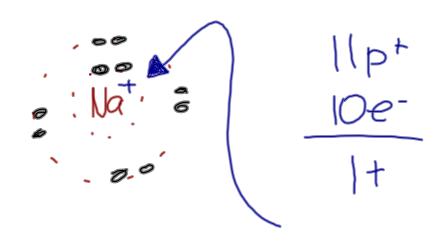
Ex. Li atom has $3p^+$ and $3e^-$ Li ion has $3p^+$ and $2e^-$ and is written Li^+

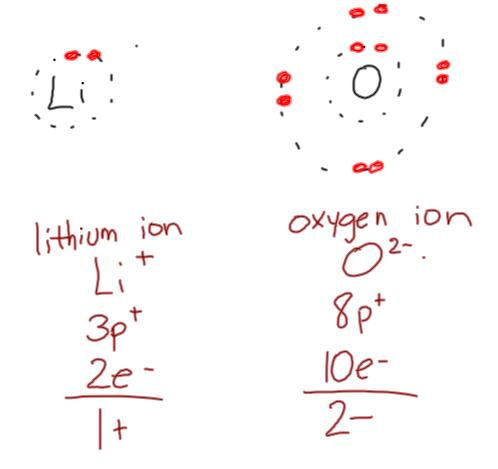
Which groups would tend to lose electrons? Gain electrons?

- metals lose electrons to become stable
 Ex. magnesium will lose two e⁻ and become positively charged
 Mg atom → Mg²+
- nonmetals gain electrons to become stable
 Ex. oxygen will gain two e⁻ and become
 O atom → O²⁻









Complete #1 p. 187 Complete Bohr Diagram worksheets p.187 #5-8