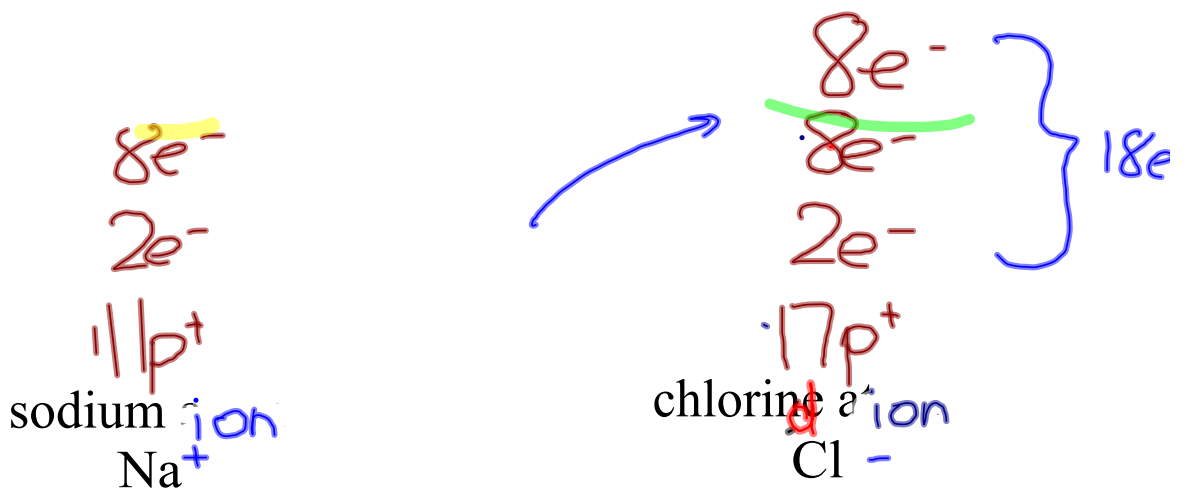
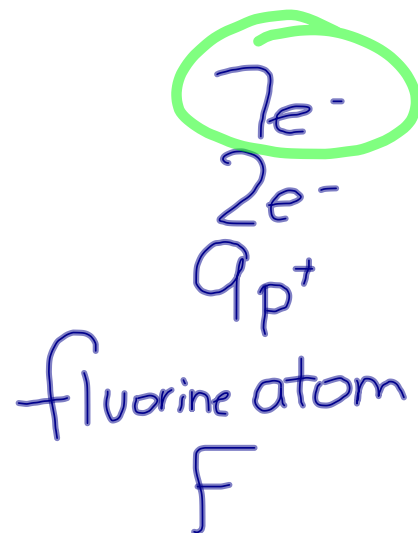
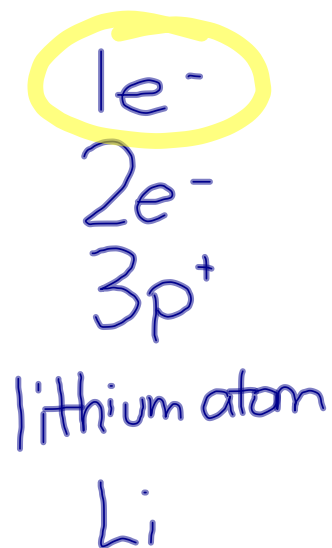


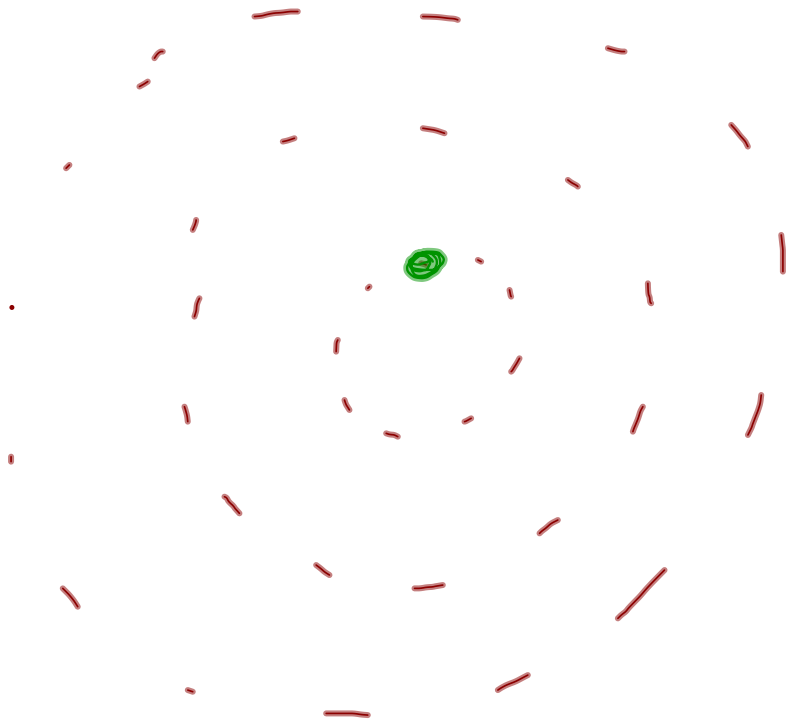
Electron Energy Diagrams

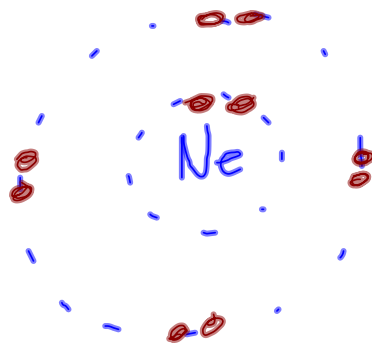


Net charge: 1+

Net charge: 1-







Ions

Ion - an atom which takes on an electrical charge. Ex. Na^+ or Cl^-

Cations - are usually formed from metallic atoms that lose electron(s).

Ex. Ag^+

- positively charged ions
- use the full english name of the atom from which it was formed followed by the word 'ion'

Ex. silver ion

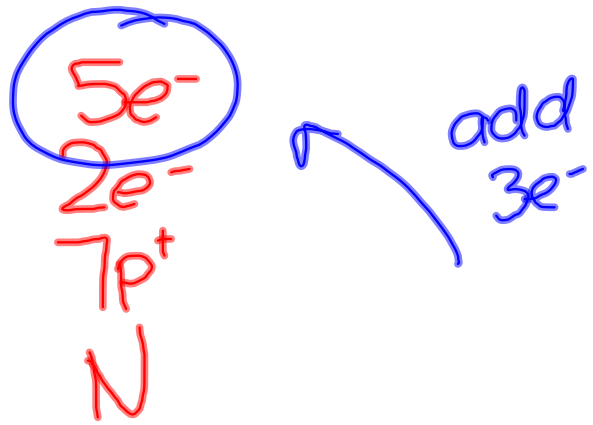
Anions - are usually formed from nonmetallic atoms which have gained an electron(s).

Ex. F^-

- negatively charged ions
- names of anions are formed by using the english name of the nonmetallic atom as a stem and adding the suffix -ide followed by the word ion.

Ex. fluoride ion

Name	Symbol	⁺ Protons	⁻ Electrons	Ionic Charge
Sulfide ion	S ²⁻	16	18	2-
tellurium atom	Te	52	52	0
nitride ion	N ³⁻	7	10	3-



Today's Assignment

Ions Worksheet