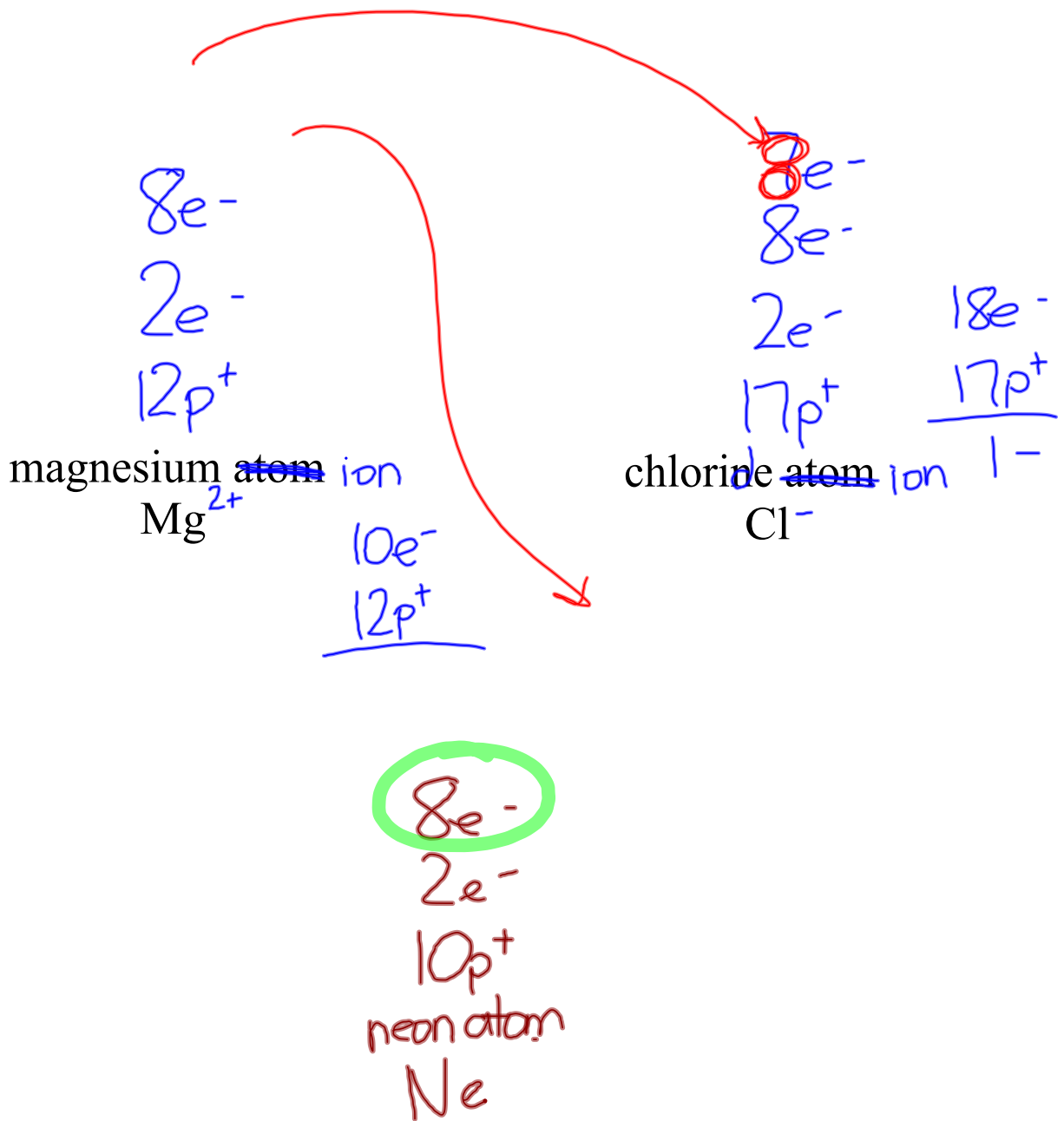


Electron Energy Diagrams



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

4e⁻

2e⁻

6p⁺

Carbon atom

C

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-

Name	Symbol	Protons	Electrons	Ionic Charge
Selenide ion	Se^{2-}	34	36	2-
calcium ion	Ca^{2+}	20	18	2+
neon atom	Ne	10	10	0
phosphide ion	P^{3-}	15	18	3-