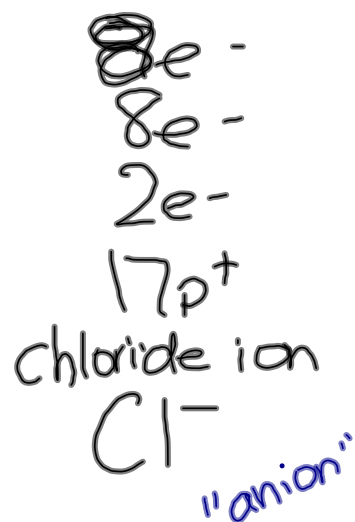
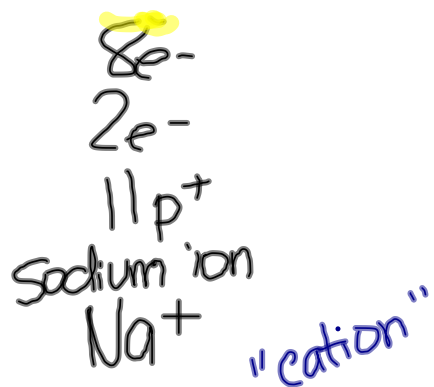


# Warm Up

Name	Symbol	<sup>+</sup> Protons	<sup>-</sup> Electrons	Ionic Charge
iron ion	Fe <sup>2+</sup>	26	24	2+
chromium ion	Cr <sup>3+</sup>	24	21	3+
silver atom	Ag	47	47	0
selenide ion	Se <sup>2-</sup>	34	36	2-



$$\frac{11p^+}{10e^-} = 1+$$

$$\frac{17p^+}{18e^-} = 1-$$

# Ions

Ion - an atom which takes on an electrical charge. Ex.  $\text{Na}^+$  or  $\text{Cl}^-$

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

Ex.  $\text{Ag}^+$

- 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.  $\text{F}^-$

- 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

# **Today's Assignment**

## Ions Worksheet