

Returned SA: Chemistry #1

Complete for Monday, Feb. 24/20

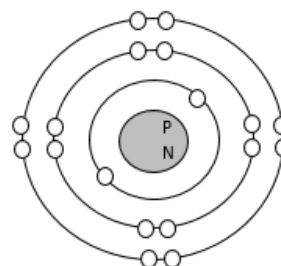
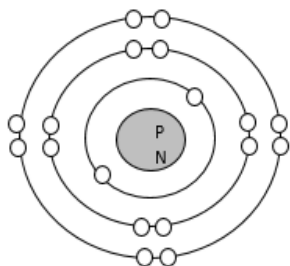
Science 10
FA – Atoms and Ions (A)

Name - _____

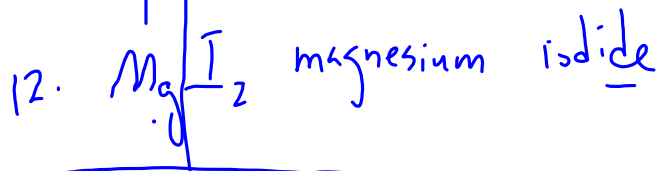
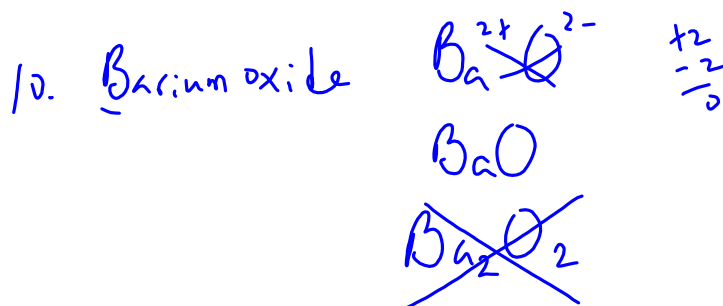
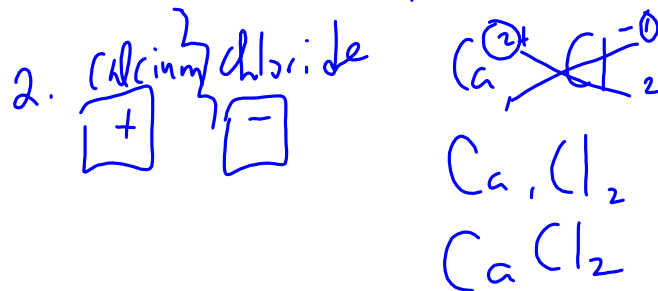
1. Complete the table below. You may use your periodic table of the elements and periodic table of the ions.

Element Name	Element Symbol	Atomic Number	# of Protons	# of Electrons in the Atom	Ion Name	Ion Symbol	# of Electrons in the Ion	Ion Charge
chlorine								
			18					
					gallium ion			

2. (a) Draw the Bohr-Rutherford diagram for an atom of sulfur. (b) Draw the Bohr-Rutherford diagram for an ion of sulfur.



Nomenclature Worksheet 2:
Simple Binary Ionic Compounds



Monatomic Ion
mono

1 atom.

Polyatomic Ion

2 atoms

3 atoms

etc.



Polyatomic Ions

Polyatomic ions contain two or more different atoms. The atoms stay together as a single, charged unit.

Some end in: "ide"

hydroxide OH^{1-}

cyanide CN^{1-}

peroxide O_2^{2-}

Most end in: "ate", "ite"

nitrate NO_3^{1-}

nitrite NO_2^{1-}

chlorate ClO_3^{1-}

chlorite ClO_2^{1-}

sulfate SO_4^{2-}

sulfite SO_3^{2-}

{ acetate CH_3COO^- or CH_3CO_2^- or $\text{C}_2\text{H}_3\text{O}_2^-$
 hydrogen carbonate or bicarbonate HCO_3^-

Note: ammonium NH_4^+

See your periodic table of ions for more examples.