Atomic Particles Exercise – Ions

Date

Learning Goal: By the end of this activity, I will be able to...

1. determine the number of p^+ and e^- and the overall ionic charge of ions
2. name ions and write their symbols

TASK:

The following list contains **charged ions**. Use the periodic table to fill in the correct information and complete the chart. DO NOT draw Lewis symbols for transition metals.

Name and Symbol	Atomic Number	Mass Number	# of n^0	# of p^+	# of e^-	Ionic Charge
				20	18	
oxide ion						-2
F^{-1}			10			
	26				24	
Cu^{+2}			35			
				1	2	
Cl^{-1}		35				
				38	36	
Ag^{+1}		107				
bromide ion,					36	
K^{+1}			20			
nitride ion,					10	
				13		+3

Worksheet: Counting Atoms

Date

Task: For each of the following compounds, determine the number of each type of atom or polyatomic ion. Then determine the total number of atoms for that compound.

$CuCl_2$ Cu = Cl = Total atoms =

$Ca(OH)_2$ Ca = OH = Total atoms =

Fe_2S_3

K_3PO_4

$(NH_4)_2SO_4$

$Hg_3(PO_4)_2$

Al_2O_3

$PbCrO_4$

$Mg(ClO_3)_2$

$Ca(OH)_2$