Notes: Naming Ionic Compounds		
What happens to the electrons of <i>metals</i> ?		
What kind of charge do metals have?		
What do we call positively charged ions?		
Define oxidation:		
What happens to the electrons of <i>nonmetals</i> ?		
What kind of charge do nonmetals have?		
What do we call negatively charged ions?		
Define reduction:		
What elements are contained within ionic compounds?		
Use your periodic table to predict the charges of the following ions:		
P Ne Ca Be I He		
Na		
S K N Cs Cl Xe		
Rules for naming ions:		
1. Metals:		
2. Nonmetals:		
Example:		
Write the names of the ions formed when each of the elements below gain or lose electrons:		
sulfur: lithium:		
nitrogen: bromine:		
potassium: chlorine:		
oxygen: hydrogen:		
Write the name of the following polyatomic ions:		
SO ₄ -2 CO ₃ -2		
MnO ₄ SO ₃ -2		
OH NO ₃		

Date: _____

Name:

STEPS FOR NAMING AN IONIC COMPOUND:	
1	
2	
Write the name of the following ionic compounds:	
CaCl ₂	
K ₂ S	
KMnO ₄	
BaO	
NH ₄ Cl	_
CsCl	
MgSO ₄	
NaBr	
AIP	
STEPS FOR DETERMINING THE FORMULA OF AN IONIC COMPOUND:	
1	
2	
3	
Write the formula of the following ionic compounds based on their names. (Show your work by writing each ion and then writing the correct formula.):	v all of
potassium iodide	
tin (IV) chloride	
barium sulfate	
sodium chloride	
strontium sulfide	
copper (II) carbonate	
aluminum bromide	
ithium nitride	

If the ion ends in -ide, it is probably from the periodic table. If the ion ends in -ate or -ite, it is a polyatomic ion.