

Name: _____ Date: _____

CHEMISTRY

Writing Chemical Formulae for Ionic Compounds with Polyatomic Ions

Write the correct chemical formulae for the ionic compound using the monoatomic ions.
Chemical formulae are written as

- Metal (cation) first, Nonmetal (anion) second.
- Use subscripts to the right of the chemical symbol for an element if there is more than one present in the molecule.
- All molecules must be neutral: Positives = Negatives
- Use the charts for the monoatomic cations and anions, and polyatomic ions to help you

	Elements	Chemical Formula
1	K & NO ₃	
2	K & SO ₄	
3	Ca & OH	
4	Ca & CO ₃	
5	Al & OH	
6	Al & ClO ₄	
7	Na & HCO ₃	
8	Na & PO ₄	
9	NH ₄ & SO ₄	
10	NH ₄ & ClO ₃	
11	Mg & HCO ₃	
12	Mg & MnO ₄	

	Elements	Chemical Formula
13	Fe(II) & SO ₄	
14	Fe(III) & OH	
15	Cu(I) & CN	
16	Cu(I) & CO ₃	
17	Cu(I) & NO ₃	
18	Mn(II) & ClO ₄	
19	Ti(IV) & SCN	
20	Ti(IV) & CrO ₄	
21	Sc(III) & PO ₄	
22	Sc(III) & CN	
23	Pb(IV) & MnO ₄	
24	Pb(II) & CO ₃	