

Name: _____

Date: _____

Notes: Writing Ionic Formulas

Write the steps to determining the formula of an ionic compound below:

1. _____

2. _____

Do you write (+) or (-) signs in the formula of a compound? _____

What does criss-cross mean? _____

For each of the pairs of ions below, write the formula of the compound they will create.

H^+ F^- _____

K^+ O^{-2} _____

Mg^{+2} Cl^- _____

Cu^{+2} I^- _____

Ba^{+2} O^{-2} _____

Ca^{+2} Cl^- _____

Zn^{+2} I^- _____

Sr^{+2} F^- _____

Mg^{+2} O^{-2} _____

Fe^{+2} Br^- _____

Fe^{+3} O^{-2} _____

Sr^{+2} S^{-2} _____

Define **polyatomic ion**: _____

Special rule for polyatomic ions: _____

For each of the pairs of ions below, write the formula of the compound they will create.

Ca^{+2} OH^- _____

Ba^{+2} NO_3^- _____

Al^{+3} CO_3^{-2} _____

NH_4^+ Cl^- _____

Mg^{+2} CN^- _____

Ca^{+2} NO_3^- _____

Fe^{+3} SO_4^{-2} _____

Zn^{+2} NO_3^- _____



1. Based on the information shown above, what is the formula for barium bromide?

F BaBr

G Ba₂Br

H Ba₂Br₂

J BaBr₂



2. According to the information shown above, what is the chemical formula for iron (III) sulfate?

A FeSO₄

B Fe₃(SO₄)₂

C Fe₂(SO₄)₃

D Fe₆SO₄