

Name: _____

Blk: _____ Date: _____

Science 9
Names and Formulas of Ionic Compounds Continued

Steps for writing formulas of _____
_____ :

Steps	Example 1: Iron (III) hydroxide
1. Identify each _____ and its appropriate _____	_____ = _____ _____ = _____
2. Determine the total charges needed to _____ positive and negative ions (or use the _____ method)	_____ : _____ = _____ _____ : _____ = _____
3. Note the _____ of positive ions to negative ions	_____
4. Use ratio as _____, be sure to protect the polyatomic ion by placing it in _____	_____

Example 2: Ammonium carbonate

- 1.
- 2.
- 3.
- 4.

Example 3: Iron (III) nitrate

- 1.
- 2.
- 3.
- 4.

Now do Practice Problems page 91 #2 a – j

Steps for writing the _____
_____:

Steps	Example 1. $\text{Cu}_3(\text{PO}_4)_2$
1. Identify the _____ and list the possible _____	_____ or _____
2. Identify the _____ on the non-metal ion	_____
3. Identify the _____ of the ions in the formula	_____
4. The positive and negative charges must _____! Determine what the charge on the metal ion must be to balance the non-metal	_____ : _____ = _____ _____ : _____ = _____ _____ : _____ = _____
5. Write out the compound name with the appropriate metal ion charge written as a _____	_____

Example 2. $\text{Mn}_2(\text{CO}_3)_3$

- 1.
- 2.
- 3.
- 4.

5.

Example 3. NH_4OH

- 1.
- 2.
- 3.
- 4.

5.

Now do Practice Problems page 91 #1 a-j