

Name: _____

Blk: _____ Date: _____

Science 9
Names and Formulas of Ionic Compounds Continued

Steps for writing formulas of _____
_____ :

| Steps | Example 1: Iron (III) sulphide |
|--|--|
| 1. Identify each _____ and its appropriate _____ | _____ = _____ _____ = _____ |
| 2. Determine the total charges needed to _____ positive and negative ions (or do criss-cross method) | _____ : _____ = _____ _____ : _____ = _____ |
| 3. Note the _____ of positive ions to negative ions | _____ |
| 4. Use ratio as _____ | _____ |

Example 2: Lead (II) oxide

- 1.
- 2.

- 3.
- 4.

Example 3: Iron (III) nitride

- 1.
- 2.

- 3.
- 4.

Now do Practice Problems page 89 #1 a – n

Steps for writing the _____
_____:

| Steps | Example 1. Cu ₃ P |
|---|---|
| 1. Identify the _____ and list the possible _____ | _____ or _____ |
| 2. Identify the _____ of the ions in the formula | _____ |
| 3. Identify the _____ on the non-metal ion | _____ |
| 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. MnO

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

5.

Example 3. SnO₂

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

5.

Now do Practice Problems page 90 #1 a-o