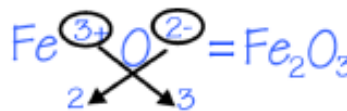
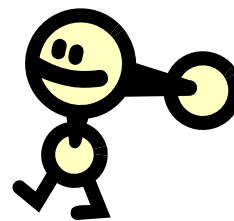


# Bond With a Classmate

## Directions:

- 1) Select **one tag**. Are you a positive (+) or negative (-) ion?
- 2) Are you a **metal, metalloid, or non-metal**?
- 3) Record your info into the data table 3 times, for the 3 different bonds you will make.
- 4) Find one ion with an **opposite** charge.
- 5) In the data table, write your partner's element and charge. Categorize their element as a metal, metalloid, or non-metal.
- 6) Write the compound into the data table. **Criss-Cross** your oxidation numbers to make them subscripts. **Reduce** if needed. (Remember, the **positive** ion is written first.)
- 7) Determine the name of your new compound with the **-ide** ending.
- 8) Find a new partner.
- 9) After your 3rd bond, have your work checked.
- 10) Your teacher will then give you a new tag with an oppositely charged ion. Repeat steps 1-9.



**Figure 19.18:** The criss-cross method is a simple way to determine the chemical formula of a compound.

## Analysis and Results:

- 1) What is a binary compound?
- 2) What does the (+) or (-) oxidation number tell you about an ion?
- 3) Which element gets the **-ide** ending?
- 4) What is a subscript? What does it tell you?

**Conclusion:** 2-3 complete sentences on what you learned by doing this activity.

Cut along dotted lines and paste into lab journal



