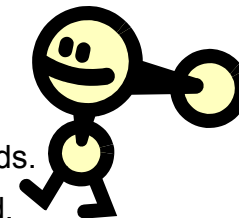


Bond with a Classmate

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. (Remember, the **positive** ion is written first.)
7. **Criss-Cross** your oxidation numbers to make them subscripts. **Reduce** if needed.
8. Determine the name of your new compound with the **-ide** ending.
9. Find a new partner for your 2nd and 3rd bonds.
10. After your 3rd bond, have your work checked.
11. Your teacher will then give you a new tag with an oppositely charged ion. Repeat steps 1-9.



Glue this side
down into your
science notebook.

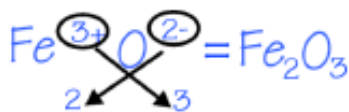


Figure 19.18: The criss-cross method is a simple way to determine the chemical formula of a compound.

“A dot is a lot!”

This lesson is modified from the original posted on sciencespot.net

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Analysis and Results - answer these in your notebook

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.

