THE WANDERING ION

Forming Ionic Compounds with Polyatomic Ions

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| **Definition of Polyatomic Ion =** |

Directions:

1. Find a partner with the opposite charged ion and write down the pair of bonded ions in the ions column.

2. Swap ions with that partner and form a new bond of oppositely charged ions.

3. Repeat this process of pairing and swapping ions until you have filled in every row.

4. Once you have written down 8 pairs of ions, return to your seat and fill in the remaining two columns.

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| Ions | Chemical formula  (Criss Cross Method) | Chemical name  Remember Roman Numerals are only written for metals with more than one charge listed.  Notice that polyatomic ions do not change their endings. |
| Notice the chemical formula has no + or – in it  Fe3+ SO42- | Fe3+ SO42-  Parenthesis are used for polyatomic ions to separate subscripts  **Fe2(SO4)3** | **Iron (III) Sulfate** |
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