**Roll the Dice – Neutral Formulas**

1. Choose which die will be the cation and which will be the anion.
2. Write the colors in the data table to keep track.
3. Roll the die.
4. Look at the numbers on the dice. Identify which ions you have based on the table below.

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| **CATION (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ die)** | | | | **ANION (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ die)** | | | |
|  | = Ammonium |  | = Silver |  | = Iodide |  | = Dichromate |
|  | = Aluminum |  | = Zinc |  | = Oxide |  | = Thiosulfate |
|  | = Barium |  | = Manganese (VII) |  | = Hydroxide |  | = Acetate |

1. Write the name of the compound formed.
2. Write the formulas for the cations and anions that you rolled with your dice.   
   Include the correct subscripts and charges!
3. “Cross over” in order to write the neutral formula. Don’t forget to reduce if needed!   
   Write the final neutral formula in the last column of the table.
4. Repeat steps 3-7 to fill in all 10 rows of the data table.

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| **NAME OF COMPOUND** | **CATION** | **ANION** | **CHEMICAL FORMULA** |
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