### Signs of a Chemical Reaction Lab

1. While wearing goggles, carefully add chemicals in the combinations shown in the table below.
   **DO NOT MIX ANYTHING OTHER THAN IN THE COMBINATIONS SHOWN!!!!!!**

2. As you mix, record your observations and indicate whether a reaction took place or not, and if it did, what type of sign you saw. They should all be obvious! If you are unsure ask Mrs. Farmer!

<table>
<thead>
<tr>
<th>Rxn #</th>
<th>Combine</th>
<th>Observations</th>
<th>Rxn or No Rxn?</th>
<th>If Rxn – what sign?</th>
<th>Clean up</th>
</tr>
</thead>
</table>
| 1     | RED A + B  
Zinc + HCl |              |                |                     | Rinse down the drain with lots of water. |
| 2     | ORANGE C + D  
Iron + CuSO₄ |              |                |                     | Paper clip in trash. LIQUID MUST GO IN WASTE JUG UP FRONT!! Rinse test tube with DI water into jug up front |
| 3     | YELLOW E + F  
Na₂CO₃ + CaCl |              |                |                     | Rinse down the drain with lots of water. |
| 4     | GREEN G + H  
KCl + Na₂CO₃ |              |                |                     | Rinse down the drain with lots of water. |
| 5     | BLUE I + J  
HCl + Water  
*YOU MUST ADD THE ACID TO THE WATER! ADD I TO J NOT THE OTHER WAY AROUND!* |              |                |                     | Rinse down the drain with lots of water. |
| 6     | PURPLE Snap one of the sticks and shake! |              |                |                     | None – Do “Rock Paper Scissors Lizard Spock” to see who takes glow stick with them 😊 |

Give an example of real life experiences that show each of the five signs of a reaction.

<table>
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<tr>
<th>Temp change</th>
<th>Light given off</th>
<th>Gas is formed</th>
<th>Precipitate formed</th>
<th>Color change</th>
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Draw a small “pictogram” that represents each of the five signs of a reaction.

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