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!

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Rxn # | Combine | | Observations | | Rxn or No Rxn? | | If Rxn – what sign? | Clean up |
| 1 | RED A + B  Zinc + HCl | | <https://youtu.be/A4XITC225uk> | |  | |  | Rinse down the drain with lots of water. |
| 2 | ORANGE  C + D  Iron + CuSO4 | | <https://youtu.be/OxGjbHzxQSI> | |  | |  | 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 | | <https://youtu.be/kKNp0HVgmjI> | |  | |  | Rinse down the drain with lots of water. |
| 4 | GREEN  G + H  KCl + Na2CO3 | | *No video – two clear liquids mixed together and nothing observable happens.* | |  | |  | 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!\**** | | <https://youtu.be/M-QMJ-JMb5I> | |  | |  | Rinse down the drain with lots of water. |
| 6 | PURPLE Snap one of the sticks and shake! | | <https://youtu.be/uJgNTeBWhDk> | |  | |  | 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.** | | | | | | | | |
| *Temp change* | | *Light given off* | | *Gas is formed* | | *Precipitate formed* | | *Color change* |
| **Draw a small “pictogram” that represents each of the five signs of a reaction.** *What is a pictogram?* <https://tinyurl.com/y724yh4t> | | | | | | | | |
| *Temp change* | | *Light given off* | | *Gas is formed* | | *Precipitate formed* | | *Color change* |