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 | REDA + BZinc + HCl | <https://youtu.be/A4XITC225uk> |  |  | Rinse down the drain with lots of water. |
| 2 | ORANGEC + DIron + 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 | YELLOWE + FNa2CO3 + CaCl | <https://youtu.be/kKNp0HVgmjI>  |  |  | Rinse down the drain with lots of water. |
| 4 | GREENG + HKCl + Na2CO3 | *No video – two clear liquids mixed together and nothing observable happens.* |  |  | Rinse down the drain with lots of water. |
| 5 | BLUEI + JHCl + 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 | PURPLESnap 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* |