**Reaction in a Baggie**

Part 1.

Observe each of the three chemicals that will be used today. Record your observations below.

|  |  |
| --- | --- |
| Chemical | Observations |
| Calcium chloride |  |
| Sodium Bicarbonate (Baking Soda) |  |
| Phenol Red solution |  |

Predict what will happen when you combine the chemicals:

Send one group member to get your materials from the teacher.

Lay your quart-sized baggie flat on the table and carefully place each of the chemicals in the baggie in the location shown below, without allowing any chemicals to mix yet. Flatten the bag, squeezing out as much air as possible, and seal it tightly before shaking the bag gently to mix the chemicals.

*a.* 1 tablespoon of calcium chloride

*b.* 1 teaspoon of sodium bicarbonate

*c.* 10 mL of phenol red indicator solution

Record your observations below:

Part 2.

Mass of chemicals and baggie before reaction:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mass of chemicals and baggie after reaction:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Part 3.

Which chemical combination is your group testing?

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Record your observations below.

As your classmate share their results, record them in the table below.

|  |  |
| --- | --- |
| Reaction | Observations |
| Calcium chloride and baking soda |  |
| Calcium chloride and phenol red |  |
| Baking soda and phenol red |  |

Using everything you have learned today, write a one-paragraph description of what occurred in the baggie when you mixed all three chemicals.