

NAME: _____ DATE: _____

Don't Overreact!

Materials

Calcium Chloride (2 teaspoons)

Ziplock bag

Teaspoon

Baking Soda (1 teaspoon)

Small cup

Pipette

Phenol Red solution (10 ml)

⚠ Safety: Do NOT make direct contact with the materials (do not touch or taste them). Use the teaspoon or pipette for moving the substances around. To smell the substances, use a wafting technique.

Procedure

1. Make careful observations of the three substances. Record your observations in the data table on the next page.



Wait for further instructions



2. Put 1 teaspoon of Baking Soda into the ziplock bag.

3. Put 2 teaspoons of Calcium Chloride into the same bag.

4. Using a pipette, measure 10 ml of Phenol Red solution into the small cup.

5. Put the small cup into the bag standing upright.

6. Without tipping the cup, make sure the bag is well sealed.



Wait for further instructions



7. When everybody is ready, the instructor will start a class countdown to tip the cup inside the bag.



Question: Was there a chemical change?

Claim (circle one): Yes, there was a chemical change/No, there was not a chemical change

Evidence:

| <u>Observations of the substances BEFORE mixing</u> Record at least three observations for each substance. | <u>Observations of the substances AFTER mixing</u> Record as many observations as you can of the mixture. |
|---|---|
| <p>Calcium Chloride</p> <ol style="list-style-type: none">1.2.3. <p>Baking Soda</p> <ol style="list-style-type: none">1.2.3. <p>Phenol Red Solution</p> <ol style="list-style-type: none">1.2.3. | |

Reasoning:

