**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_**

**Lab: Sunset in a Bag**

Chemical reactions occur when substances are combined or separated chemically. When substances are combined or separated, but not changed chemically, it is a **physical change**. Often, there are clues when a chemical change has occurred. You will be seeing and feeling some of these changes today. You must be very observant and follow the directions exactly. Some of these chemicals stain, so be VERY careful and DO NOT spill!!!!

**Materials**

Dropper Phenol Red 20 ml of water

Plastic Spoon Weigh Boat graduated cylinder

Plastic bag Calcium Chloride (CaCl2) Baking soda (NaHCO3)

|  |  |
| --- | --- |
| **PROCEDURE** | **OBSERVATIONS** |
| 1. Add 20 mL of water and 1 dropper of phenol red to the plastic bag. Gently slosh the solution around to mix it.
 |  |
| 1. Open the bag cautiously, not pointed toward anyone’s face. Add 1 spoon of calcium chloride (CaCl2) to the bag. Seal the bag and gently slosh the solution to mix.
 |  |
| 1. Open the bag carefully as before, and add 1 spoon baking soda. Quickly seal the bag and slosh the contents to mix the ingredients together.
 |  |
| 1. Clean up! Give your bag to the teacher and return supplies. Wipe up any spills with paper towels and wipe down lab bench with the wipes provided.
 |

Conclusion

1. What evidence of a chemical changes did you observe?
2. What were the reactants of this reaction?