

Bag of Reactions

Name _____
Date _____
Period _____

Problem: _____

Hypothesis: _____

Procedure:

1. Write down some observations about the chemicals before they are mixed.

(color, size of granules, phase of matter, smell, etc.)

Calcium Chloride (CaCl_2) - _____

Sodium Bicarbonate (NaHCO_3) - _____

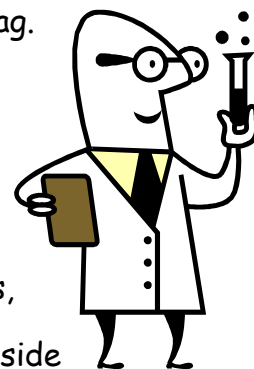
Phenol Red Solution ($\text{C}_{19}\text{H}_{13}\text{NaO}_5\text{S}$) - _____

2. Check your Ziplock bag for holes. Put some water in the bag and zip it shut. Turn it over a few times and look for leaks. Dump the water out and dry the bag.

3. Measure 2 spoons full of NaHCO_3 and place them in the bag.

4. Measure 3 spoons full of CaCl_2 into the bag.

5. Measure 20mL of Phenol Red into the small measuring cup. Put the small cup into the bag without spilling the Phenol Red. Using four hands, carefully zip the bag closed. One person should hold the bag and cup inside while the other zips the bag shut.



6. Once the bag is sealed, pour the Phenol Red into the white powders. Gently mix the liquid with the powders.

Observations: Write down a detailed description of everything your senses observe.
(color, texture, temperature, sounds, odor.)

Conclusion: Based on the observations made above, write your conclusion. _____

