

Name: _____ Date: _____ Period: _____

Chemistry in a Bag Demonstration



Objectives:

- to observe chemical reactions.
- to observe changes in pH.
- to do a burning splint test.

Materials:

- sandwich size zip top bag (x3)
- 2 plastic spoons
- 2 tbsp calcium chloride (x3)
- 2 Tbsp. baking soda (x3)
- 1 test tube of water (x3)
- 30 mL of **Phenolphthalein*** (x3)
- matches
- wooden splints
- goggles, gloves, lab apron

Observations Part 1:

	Color?	Heat Produced?	Foam or Bubbles?	Gas?
Bag 1				
Bag 2				
Bag 3				
Bag 4				

Observations - Part 2

What happened when you placed the splint into the 3rd bag? Why?

Analysis and Results:

1) Was there a change in pH? How do you know? _____

2) What happened to the contents of the bags? _____

3) Without opening the bags, how can you tell if a gas was produced?

4) This equation tells us what chemical reaction happened in the bag. Identify and count the elements on each side of the "yield" sign:



5) Place a **CIRCLE** around the Calcium Chloride. Place a **SQUARE** around the Salt. Place a **TRIANGLE** around the Water.

6) What gas was produced in this reaction? _____

7) Was there a change in temperature? How can you tell? _____

Conclusion:

2-3 Sentences on what you learned.
