

Name: _____ Date: _____

Chemistry ~ Ms. Hart

Class: Anions or Cations



Lab #2: What's Changing?

Pre – lab:

Matter can change in many ways. Changes can be divided into two groups: physical changes and chemical changes. Write the definitions of physical and chemical changes in your own words below.

Physical Change— _____

Chemical Change— _____

List the 5 clues that a chemical change may have occurred: _____

Lab:

Follow the directions at each station and watch each change occur. Write down your observations of what happened. Read what is happening to the molecules. Write if it is a physical or chemical change.

CHANGE	OBSERVATIONS	WHAT'S HAPPENING?	CHEMICAL OR PHYSICAL?
Yeast and water and Hydrogen Peroxide		Hydrogen peroxide molecules are breaking up into oxygen and water	
Water Boiling		H ₂ O molecules get farther apart	
Baking soda + Vinegar		The molecules break up and form CO ₂ , water & sodium acetate.	

CHANGE	OBSERVATIONS	WHAT'S HAPPENING?	CHEMICAL OR PHYSICAL?
Dissolving Food Color in Water		Food color molecules get surrounded by water	
Ripping Paper		Paper molecules get split into groups but stay themselves	
Dissolving Salt in water		Salt molecules get surrounded by water molecules	
Break a piece of chalk		Chalk molecules get broken up but stay as chalk molecules	
Phenolphalein and NaOH		NaOH reacts with phenolphalein to make water and another carbon compound	

Conclusion:

1) What differences did you see between physical and chemical changes?
