Evidence of chemical changes lab: (write in lab binder/journal)

Objective: Recognize the 4 signs that a chemical change might have occurred Procedure: Write observations in a data table upon completion of the four stations

station #	observations (description of senses) (ex. bubbles formed or felt hot)	evidence (one of the four signs that a chemical change might have occurred)

Station 1:

- 1. add 1 piece of Mg to 4 ml of .5M HCl in a test tube
- 2. **Immediately** cover the test tube with a cork or your thumb
- When reaction is near completion, about 11/2 minutes, place a lit wood splint into the gas section of the test tube **immediately** following the uncorking of the test tube and record observations

Station 2:

- 1. Add 3 drops of KI to 1 cm of Pb(NO₃)₂ in a test tube
- 2. Make immediate observations as well as observations about 2-5 min. of test tube being undisturbed

Station 3:

1. Add one drop of phenolphthalein to a basic solution and make observations

Station 4:

1.	You must do	the entire	experiment	under the	hood

2	2. Place about	g of sugar in a 50ml beake

- 3. **Carefully**, (be sure to have on chemical resistant gloves) pour about _____ ml of concentrated sulfuric acid into the beaker with the sugar and make observations.
- To clean, when beaker is cool remove contents carefully and discard in the trash. Pour a small amount of acetone to rinse off any residue left over and then clean with soap and water.

Questions:

- 1. What are the four signs that a chemical change might have occurred?
- 2. Does the presence of one of these signs always indicate a chemical change?
- 3. Besides bubbles, what is another observation that suggests a gas is produced?
- 4. Besides light production, what are other observations that suggest energy absorption or release?