

# Part 1 $\infty$

4 ice cubes  
in a small beaker.

When you're done with this make sure the beaker is cool enough to pick up with your bare hands.

Wash with soap and water.  
Put upside down to drain.

## Part 2 $\infty$

### TWO SOLUTIONS - into a small beaker.

Take both flasks to your area,  
put 3 drops of each solution into  
a small beaker.

Do not cross contaminate the  
eyedroppers/solutions.

LOOK! Do you see what happens?

Wash with soap and water.

## Part 3 $\infty$

Sodium Hydrogen Carbonate  
and Acetic Acid

35 mL acid goes into a big  
scoop of white powder.

Pour all the acid at once!

Wipe up well.

## Part 4 $\infty$

# Cu wire into fire

Use tongs to put copper wire into the hottest part of the flame (the cone of pain).

Turn the wire like a hot dog.  
Red Hot means it can hurt your skin.

When it cools, does the red oxide or the black oxide form?

Get name from these flasks of these different “copper oxides”.

# Part 5 ∞

## Sodium Hydrogen Carbonate (again)

A nice sized scoop into a test tube.  
Using a test tube clamp, heat it up,  
and lightly tap the tube with a pencil.

Make sure Mr. Arbuiso comes over  
when you do this so he can show you  
and ask you about what's going on.

Soap and water,  
drain test tubes UPSIDE down.

# Part 6 $\infty$

## Scariest part of the lab.

Magnesium metal goes into  
the fire with tongs.

DO NOT LOOK at the  
BURNING metal!

Keep it over the black tables.  
Straight arms!!

Fingerprints please.

# Part 7 $\infty$

## $\text{H}_2\text{O} + \text{potassium nitrate}$

Do not get this in your mouth  
(or else!)

Beaker with 40 mL water, get the start temperature. Stir in white powder, stir gently with the thermometer.

Check final temperature.  
Soap + water.

Do not get this in your mouth  
(or else!)