**Writing Complete Equations Mini-Lab Makeup**

Write the complete balanced equation for each of the following reactions. These reactions have been described in as comprehensive a manner as possible, recreating how they were described in class.

Reaction 1:

The reagents:

* Calcium (Ca, it rattled around in a test tube when it was shaken)
* Water (which was poured into a small dish)

What I did:

* I placed the calcium into the water.

What I saw:

* The reaction started bubbling (the bubbles were H2)
* A white powder started forming – Ca(OH)2
* The mixture started steaming and became hot.

Reaction 2:

The reagents:

* Vinegar (which is a solution of C2­­H4O2)
* Baking soda (powdered NaHCO3)

What I did:

* I mixed them together in a small dish

What I saw:

* Lots of foaming – the gas formed was carbon dioxide
* Some good old water was formed in the reaction.
* Sodium acetate (NaC2H3O2) was also formed, but was dissolved so it couldn’t be seen.
* No temperature change was noted.

Reaction 3:

The reagents:

* Isopropanol (C3H8O), which sloshed around in a bottle.
* Oxygen (O2), which was in the air

What I did:

* I used a lighter to add flame to the isopropanol.

What happened:

* No products were evident. This is because they were carbon dioxide and water vapor, both of which were gases.
* An extremely large amount of heat was given off.