Tuesday Day 1

Sizzling Stuff – Test 1

When an acid is added to some substances, they begin to change. When they change, they give off carbon dioxide gas. The chemicals will bubble as they give off this gas. Sodium bicarbonate (commonly known as baking soda) is a substance that reacts to an acid.

Materials:

Science Journal
Vinegar (50 ml)
Clear Test Cups (labeled a, b, c)
Popsicle sticks
Mystery powders (in containers marked a, b, c)
Triple Beam Balance
Graduated cylinders

Safety:

1. Never eat or drink anything in science lab. You never know what is or what was in there.
2. Wear goggles when working with powders or other chemicals that could injure the eyes.
3. Know where important safety equipment is, and if you don't know ask.

Procedures:

1. Measure 10 grams of each powder into the corresponding test cup. (Be sure to account for the mass of the cup!)
2. Measure and pour 10ml of vinegar into the petri dish marked "A"
3. Observe what happens to powder A once the vinegar has been added to it. Record your observations.
4. Repeat for the next two powders.
5. Clean and dispose of materials as directed. If you don't know, **ASK**!

Friday
Day 2

Black and Blue All Over – Test 2

Iodine is a yellow-orange substance that can be used to test for starch. Flour is a starch used in making breads, cookies, and cakes. When iodine is put on a starch, a bluish black color appears.

Materials:

Science Journal
Clear Test Cups (labeled a, b, c)
Mystery powders (in containers marked a, b, c)
Iodine w/**eye dropper**

Safety:

1. Never eat or drink anything in science lab. You never know what is or what was in there.
2. Wear goggles when working with powders or other chemicals that could injure the eyes.
3. Iodine is a poison and will stain skin and clothing.

Procedure:

1. Measure 10 grams of each powder into the corresponding test cup. (Be sure to account for the mass of the cup!)
2. Use the eye dropper to place three drops of iodine onto Powder "A"
   (Remember: IODINE is a POISON and will stain your skin! Do not touch any part of your face with the iodine, and wash you hands after this experiment.)
3. Observe any changes and record your observations.
4. Repeat for the remaining powders.
5. Clean and dispose of materials as directed. If you don't know, **ASK**!