**Investigation 2: Baking Soda and Vinegar**

**Question:** What will happen when we mix baking soda (a white, powdery solid) with vinegar (a clear liquid)?

**Prediction:**

**Let’s first measure the mass of the reactants!**

Weight of (***baking soda + paper***) + (***vinegar + cup + plate***) before mixing =

**Directions: Now pour the baking soda into the vinegar.**

Observation: What do you see happening?

Weight of (baking soda + paper + vinegar + cup + plate) after mixing =

What do you notice about the weight before and after?

Re-state the Law of Conservation of Mass:

So what do you think happened?

How could we prove it?

Inference: Was this a physical or chemical change? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Explain why.