## **Conversions and Smoke Bombs!**

## **Materials:**

- 1. Salt Peter (Potassium Nitrate)
- 2. Sugar (regular, powdered, and brown)
- 3. Alcohol
- 4. Beaker
- 5. Alcohol
- 6. Stirring Rod
- 7. Pipette
- 8. Food Coloring

## Procedure:

- 1. Convert the following ingredients from tablespoons to grams. 15 grams = 1 tablespoon
  - a. .3333 tablespoons potassium nitrate = \_\_\_\_\_ g
  - b. .5333 tablespoons of sugar = \_\_\_\_\_ g
- 2. Measure out each of the ingredients using the digital scale. Be extremely precise in order to get good results!
- 3. Use a mortar and pestle to crush the potassium nitrate as fine as possible.
- 4. Mix the potassium nitrate and regular sugar in a beaker.
- 5. Using the pipette, add just enough alcohol to make a thick paste. Stir until they are completely mixed.
- 6. Set your lump of ingredients onto a piece of wax paper (this is your control).
- 7. Repeat the experiment with the following changed variable:
  - a. Use **brown sugar** with crushed potassium nitrate
  - b. Use **powdered sugar** with crushed potassium nitrate
  - c. Use the potassium nitrate without crushing it and with regular sugar
  - d. Add food coloring to the crushed potassium nitrate and regular sugar

## **Conversions:**

1. Convert 3.8 g to lb

$$1 lb = 453.49 g$$

2. 670 oz to mL

$$1 \text{ oz} = 29.57 \text{ mL}$$

3. 190m to yd

$$1 m = 1.09 yd$$

4. 250 oz to g

$$1 g = .035 oz$$