

# Potions Lab Science Sheet

 *A Magical Chemistry Experiment for Young Wizards and Witches*

---







 **Potion Name: Fizzy Fire Elixir**

## **Objective:**

To create a bubbling potion using safe kitchen ingredients, and learn about acid-base chemical reactions.

---

## **Materials Needed:**

Item	Magic Name
1 cup of vinegar	 Dragon's Blood
1 tablespoon of baking soda	 Crushed Troll Tooth
A few drops of food coloring	 Fairy Essence (choose your color!)
1 clear cup or beaker	 Potion Glass
Tray or plate	 Spell Surface (for spills)
Measuring spoons	 Wizard Scales

---

## **Instructions:**

- Set Up:** Place the clear cup on the tray.
- Add the Magic Color:** Pour a few drops of food coloring into the cup.
- Pour in the Dragon's Blood:** Fill the cup halfway with vinegar.
- Prepare the Troll Tooth Dust:** Measure 1 tablespoon of baking soda.
- Cast the Spell:** Drop the baking soda into the vinegar and stand back!
- Observe the Reaction:** Watch the potion bubble, fizz, and overflow!

---

## What's Happening?

You're witnessing a **chemical reaction** between an acid (vinegar) and a base (baking soda). When they mix, they create **carbon dioxide gas (CO<sub>2</sub>)** — the fizzy bubbles you see are the gas escaping!

---

## Science Behind the Magic

### Ingredient    Type    Role

Vinegar          Acid    Reacts with base to release gas

Baking Soda    Base    Reacts with acid to release gas

CO<sub>2</sub> Bubbles    Gas    Caused by the reaction – creates fizz!

---

### Extra Fun:

- Try using different **colors** to create Rainbow Potions!
  - Add a squirt of dish soap to make your potion **foam**!
  - Try **cold vs warm vinegar** – which one reacts faster?
- 

## Think Like a Wizard-Scientist!

Answer these questions:

1. What did you observe when the potion reacted?
  2. What would happen if you used more baking soda?
  3. Could you use lemon juice instead of vinegar?
- 

## Safety Reminder:

This activity is safe but should be done **with adult supervision**. Never drink the potion — even magical potions are for observation only!