



WITCH'S BREW

WHAT YOU WILL NEED:

Small bowl (a.k.a. a caldron), A large bowl or dish with a lip, Dish soap, Baking Soda, Vinegar, a Cup, Measuring spoons, and Food coloring

INSTRUCTIONS:

1. Place your small bowl or caldron in the center of the larger dish to help contain the mess
2. Measure out 1 tbsp. of baking soda and add it to the small bowl/caldron
3. Add a few drops of food coloring to the baking soda and stir the mixture
4. Measure 2-3 tbsp. of vinegar in the cup
5. Add a few drops of dish soap to the vinegar and stir
6. Add vinegar mixture in the cup to the baking soda mixture in the small bowl/caldron

For fun you can say a magic word or spell when you do the last step. For example: Double, double toil and trouble; Fire burn, and caldron bubble!

WHAT'S HAPPENING?

Baking soda is sodium bicarbonate (NaHCO_3), a weak base, and vinegar contains acetic acid ($\text{HC}_2\text{H}_3\text{O}_2$), a weak acid. When mixed, the two react in an acid-base neutralization reaction. One of the products is carbon dioxide gas (CO_2), which causes the bubbling.