

## Baking Soda Colors

1. Add baking soda to each area of the muffin tin (you can also use individual cups if you don't have a muffin tin)
  - a. Fill muffin tin  $\frac{1}{4}$  of the way. You don't want to use too much!
2. Add 3-4 drops of food coloring to each spot of the muffin tin
  - a. Try mixing colors in some of the spots to see what you can create!



3. Using syringe, squirt bottle, or small dixie cup, put a small amount of vinegar in each spot of the muffin tin! Use just enough vinegar until it starts to react.
  - a. See the cool reaction between the vinegar and baking soda and discover what color comes from the tin!

4. Once you are done, you can dump the finished experiment down the drain to clean up!
  - a. If you do the project outside, keep in mind that if you dump this mixture on the grass, it will kill the grass in that area.



How does this reaction happen??

When **vinegar** and **baking soda** are first mixed together, hydrogen ions in the **vinegar** react with the sodium and **bicarbonate** ions in the **baking soda**. The result of this initial **reaction** is two new chemicals: carbonic acid and sodium acetate. ... This creates the bubbles and foam you see when you mix **baking soda and vinegar**