

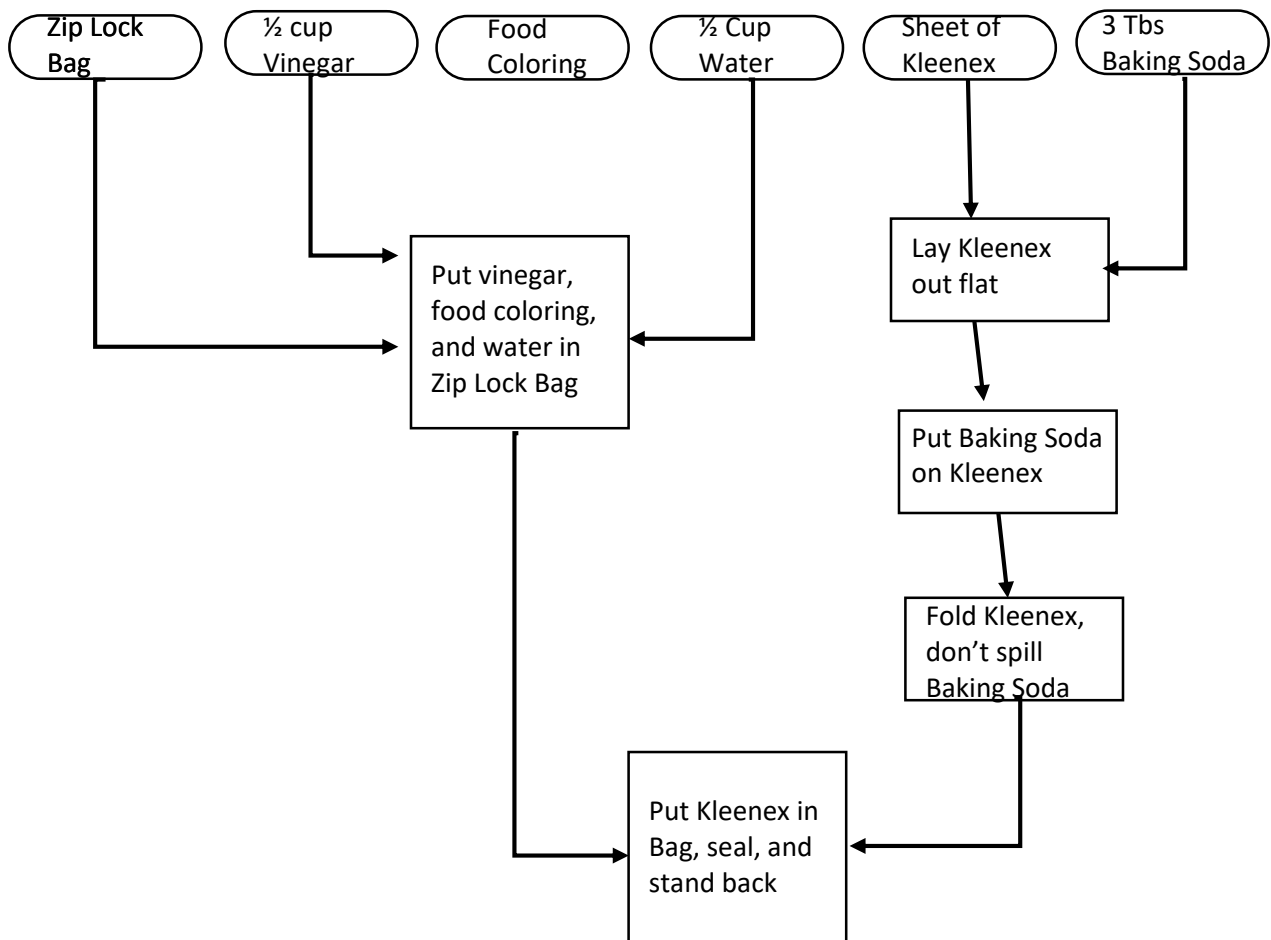
Exploding Baggie

Equipment

- Zip Lock sandwich bags
- ½ cup vinegar
- ¼ cup water
- Food coloring as desired
- Kleenex tissue
- 3 tablespoons baking soda

Experiment

- 1) Lay Kleenex out flat.
- 2) Place the baking soda in the middle of the Kleenex.
- 3) Fold the Kleenex into a small square making sure not to spill any baking soda.
- 4) Place vinegar, water, and food coloring into a Zip lock baggie.
- 5) Go outside.
- 6) Drop Kleenex with baking soda in the Zip lock baggie and immediately seal it shut
- 7) Back away quickly.



What Happens?

Exploding Baggie

Vary the amount of vinegar, water, and baking soda and see how each alters the results.

Run	Variables			Result
	Amount of Water	Amount of Vinegar	Amount of Baking Soda	Time to Explode
1	¼ cup	½ cup	3 tablespoons	
2	½ cup	½ cup	3 tablespoons	
3	¼ cup	¼ cup	3 tablespoons	
4	¼ cup	½ cup	6 tablespoons	
5	¼ cup	¼ cup	6 tablespoons	
6	½ cup	½ cup	6 tablespoons	
7	½ cup	¼ cup	6 tablespoons	
8	½ cup	¼ cup	3 tablespoons	

Which reaction did you like best?

What other variable could affect this experiment?

- Kleenex size, number of folds
- Using another tissue besides Kleenex
- Brand of Vinegar or Baking Soda
- Tap or distilled water
- Alka-Selzer vs Baking Soda