



EXPERIMENT #2

Be sure to follow the directions carefully and ask your teacher for help.

The Fizzy-Fun-Gas Experiment

Natural gas companies need special tools and equipment to make sure the gas fits inside the pipeline and travels quickly to its destination. This experiment shows you how gas can take up lots of space.

Directions:

1. Using the funnel, fill the balloon, taking care not to stretch it, with baking soda. Don't fill the neck part of the balloon, just the body. (Your teacher can help you with this!)
2. Wipe off the funnel very well and use it to fill the bottle about one-fourth full with vinegar.
3. Now, carefully stretch the neck of the balloon over the bottle opening. Let the balloon hang down the side of the bottle while you do this, so none of the baking soda spills into the bottle. Make sure the balloon is snugly in place.
4. Lift the balloon quickly so the soda falls into the bottle. As the soda reacts with the vinegar, bubbles will appear. When the bubbles pop, they release gas into the air. All that gas takes up so much space that it has nowhere to go but up and into the balloon.

Materials needed:

- Empty bottle
- Balloon (don't blow it up!)
- Funnel
- Baking soda
- Vinegar

