

Zedua Experiments

Title: Inflating Balloons With CO₂

Materials Required:

1. Balloons
2. About 40 ml of water
3. Soft drink bottle
4. Straw
5. Juice from a lemon
6. 1 teaspoon of baking soda
7. Rubber band

Procedure:

1. Stretch the balloon to make it as easy as possible to inflate.
2. Pour water (about 40 ml) into the soft drink bottle.
3. Add the teaspoon of baking soda and stir it with the straw until it has dissolved completely.
4. Pour the lemon juice in and quickly put the stretched balloon over the mouth of the bottle and tighten it with a rubber band.

What's happening?

In this experiment, the baking soda is a base, while the lemon juice is an acid, when the two combine they create carbon dioxide (CO₂). The gas rises up and escapes through the soft drink bottle, pushing the balloon outwards and blowing it up.

Note: Lemon juice can be replaced by vinegar

Science for Kids:

Inflate a Balloon



Source: Science for kids