

# Bigheaded bottle 

1 Choose a balloon in a color you like and draw a funny face on it. We've drawn a smiley ace, as he will have a lot of fun in this experiment!


You will need:

- A half liter bottle
of soda
- A small container
- A permanent
marker
- Scissors
- A balloon

2 Open the soda very carefully without losing the gas! Don't without losing the gas! Don't
shake it before you open it or open it upside down... as all of the gas and bubbles will come out and you'll get wet!

3 Remove the ring around the bottle opening, as you won't bottle opening, as you won't You can remove it with your fingers or with the help of the scissors. Snip!

4 Remove a little soda from the bottle, pouring it into the small container: About 4 fingers. Don't worry; 4 fingers. Don't worry;
it doesn't need to be exact..


## Why does it happen?

Soda is a drink that contains carbonated water. And what's that? Well, it's water that contains a gas, carbon dioxide dissolved in it; that is, there is a lot of carbon dioxide mixed with the water. When you shake the bottle with the balloon in place, the balloon inflates even more. It didn't just get fat suddenly! This happens because the gas that is dissolved in the water has separated and has been released! The gas tries to leave the bottle and the only way out is into the -balloon. And because the balloon is elastic it inflaztes on its own!

6 Try it out!
Hold the neck of the bottle with the balloon bottle with the balloon with one hand, just in case... and shake the bottle strongly so that the gas enters the balloon. If you leave he bottle on the table, you up, as if by magid You have a bigheaded!

5 Place the balloon opening over the nec of the bottle, so that it is well secured and the balloon doesn't shoot off, hey!


