

Expanding Balloon

Friday, 15 March 2013 13:51



How to inflate a Balloon using Baking Powder and Vinegar

Material:



- a small plastic bottle
- baking powder
- vinegar
- balloon

Instruction:

First, put the baking powder into the empty bottle.

Expanding Balloon

Friday, 15 March 2013 13:51



Then you have to put some vinegar inside the bottle.



Now stretch the opening of the balloon over the mouth of the plastic bottle.

You have to shake the bottle a little bit.



Wait now a few seconds and the balloon will get bigger and bigger!



Explanation:

The acetic acid reacts with the baking soda. Carbon dioxide is formed which expands and fills the balloon.

It is similar if you bake a cake: While the preparation of the dough and baking some small gas blister are produced through chemical reactions. They make the cake loose.