

Make Your Homemade Lemonade Fizzy



How would you like to make home-made lemonade that really fizzes,

Give this experiment a go and find out the science fact on just why it works.

You will need:

- Lemon
- Drinking glass
- Water
- 1 teaspoon of baking soda
- Some sugar to make it sweet



Method:

1. Squeeze as much of the juice from the lemon as you can into the glass.
2. Pour in an equal amount of water as lemon juice.
3. Stir in the teaspoon of baking soda.

Give the mixture a taste and add in some sugar if you think it needs to be sweeter.

The science behind it:

The mixture you created should go bubbly and taste like a lemonade or soda.

The bubbles that form when you add the baking soda to the lemon mixture are carbon dioxide (CO₂), these are the same bubbles you'll find in proper fizzy drinks. This is not much different to fizzy drinks you can buy.

If you are wondering how the carbon dioxide bubbles formed, it was because you created a chemical reaction when you added the lemon (an acid) to the baking soda (a base).