

# Suzy's World

## Fizz - What makes things fizz?

### Fact

- The bubbles in fizzy drink are bubbles of carbon dioxide gas.
- Carbon dioxide gas is compressed into the bottle and dissolves in the drink.
- When you open the lid of a fizzy drink the sound you hear is the carbon dioxide escaping into the air.



### Do you know

- When you open a can or bottle of fizzy drink after it has been shaken or dropped the drink can fizz everywhere. That's because the particles in the fizzy drink will be moving around very quickly. The carbon dioxide bubbles rush to the top of the drink and will try to escape as fast as they can.
- Fizzy drink was invented over 200 years ago.
- Add an acid like citrus-fruit juice to a carbonate like baking soda or chalk and you get carbon dioxide, calcium chloride and water.

### Experiments you can do

Make your own fizzy drink

#### What you need:

A glass of water

Lemon juice

Castor sugar

Baking soda

#### What you do:

Squeeze some lemon juice into the glass of water and stir in a teaspoon of castor sugar.

Taste the drink. Is it fizzy? Well, add a teaspoon of baking soda. What happens? What does it taste like? How does it taste different to bought fizzy drinks?

The baking soda and lemon juice react to make carbon dioxide in the water.



### Other Investigations

What happens when you add a handful of raisins to a glass of fizzy drink? Write down your prediction then put 5 or 6 raisins in a glass of fizzy drink and watch what happens. (A lighter coloured fizzy drink works better than cola so you can see the raisins)

First the raisins sink because they are more dense or heavier than the drink. Then bubbles of compressed carbon dioxide form under the raisins. The bubbles make the raisins float, so they rise and when the bubbles reach the surface they burst. That means the raisins are heavier than the drink again so they sink.

### Jokes

Did you hear about the fireworks made out of fizzy drink? They were a real fizzer.