

## See Through Cola

Even if our last experiment didn't make you think twice this experiment might just change the amount of fizzy drinks you drink for the rest of your life.

We'll learn a little bit about chemistry too!

### What do I need:

- Bottle of cola
- Glass of milk
- Plate or bowl
- Patience (harder to find than milk or cola!)

### How do I do it?

**STEP 1** - Put the bottle of cola onto a plate and open it up.

**STEP 2** - Fill up the remaining gap at the top of the bottle with milk.

**STEP 3** - Watch in disgusted amazement as it bubbles over.

**STEP 4** - Pop the lid back on your bottle and mix your milk and cola together by turning the bottle over a few times.

**STEP 5** - Sit back and relax and wait as it takes several hours for the coke to get fairly see through and several days for it to go completely see through.

### What's going on?

It's absolutely disgusting isn't it. Is it going to make you think twice before you have your next fizzy drink?

The chemical reaction is caused by the fact that the cola is acidic. Cola is acidic because it contains phosphoric acid.

It's the acidic property that causes the reaction between the proteins within the milk and the cola. The two combine together and leave you with a see through bottle of 'cola'.

### More Fun Please - Experiment like a real scientist!

- Test out different brands of cola, what difference does that make?
- Does warming up either the cola or the milk (or both) speed up or slow down the chemical reaction?

