

Rubber Egg

What you need:



- 1 egg
- 1 cup of vinegar
- 1 glass

Instructions:



- Pour the vinegar into a glass.
- Add the egg and watch.
- Leave for 24 hours but check a few times during the day to see if there are any changes.
- After 24 - 48 hours gently rinse your egg under cold water. Any remaining shell should just wash off.
- Try and bounce your egg — do this on a tray or outside just in case you make a mess.
- Caution — don't eat your egg as it won't taste good. Once you've had some fun bouncing it, throw it away and don't forget to clean up your dishes!

Rubber Egg

Results:

Can you see what is happening? Describe this to an adult, film your result or write it down in a notebook. Check the changes at regular times.

When you first start the experiment see how the bubbles start to appear almost immediately.



WHY do you think it is doing this?

The Science Behind it:

The scientific name for the vinegar in your pantry is acetic acid and it is considered a mild acid.

Egg shells are made up of calcium carbonate and when added to the acetic acid (vinegar) the acid causes the calcium and carbonate to break up. The calcium dissolves into the liquid and the carbonate reacts to form carbon dioxide gas. This can initially be seen as small bubbles on the shell. Eventually, the shell should completely dissolve and the carbon dioxide gas will bubble out into the air resulting in a 'Rubber Egg!'

Act Like a Scientist:

Good scientists like to ask and explore and ask more questions!

Repeat this experiment and watch

- What happens if you do this with water, orange juice or fizzy drink?
- Can your egg bounce? Do this on a plate so you don't make a mess!
- Does it react quicker with warm vinegar?