

3 Egg science experiments

(source: <http://mommasfunworld.blogspot.com/2013/03/3-egg-science-experiments.html>)

How an egg shell disappears?



Materials:

Raw egg

White vinegar

Container

Place the raw egg in the container, then cover with vinegar. You will notice almost right away the egg starts to bubble(that is the chemical reaction that is happening)

We left it in the vinegar for 2 days and then took it out and washed it off, it was clear. Then we used it for another experiment (see below).

How to shrink an egg?



Materials:

Light karo-syrup

Shell-less egg (experiment above will get you a shell-less egg)

We took the shell-less egg from above experiment and used it for this next experiment.

Place egg in container and pour karo-syrup all over the egg. Leave it in there for 12 hours. You will notice after a couple hours it starting to shrink.

When an egg is placed in the syrup the water moves out and cause a decrease in mass. This is a result of *osmosis* occurring.

How to make an egg erupt?

How to make an egg erupt?

Fun for all ages



Materials:

Water and food coloring if you want the egg to be colored

Shrunken egg (from above experiment)

Toothpick

Take your shrunken egg and place in water, we used colored water to give it a twist for the end result. Then wait several hours.

Your egg will reabsorb the water and grow again, but will also turn colored if you made the water colored.

Egg in a Bottle

(source: <http://wemadethat.blogspot.com/2013/02/egg-in-bottle.html?m=1>)



 Pinit

We did this experiment a week ago when we had a couple friends over. The kids all thought it was pretty cool when the egg got sucked into the bottle (as you can see from the pictures below). I will be honest and let you know that we had a few issues at first getting the egg sucked in. I thought you could just light a match and put it in the bottle and then the Air pressure would suck in the egg. WRONG a match does not produce enough fire for this to happen. So we finally used some paper and that worked great. If you like this experiment don't forget to check out our other Science Experiments here.

What is happening with this experiment? Before the fire was put into the bottle, the pressure of the air inside the bottle was the same as outside the bottle. The fire then heats the air inside the bottle. This causes the air inside to expand. When you put the egg on top of the bottle it then seals the bottle, and the fire goes out. When the fire goes out the air inside the bottle cools. As the air cools it contracts, and the pressure of the air inside the bottle becomes less than the pressure outside. Then, the higher outside pressure pushes the egg into the bottle.

Side Note: Don't worry if your egg does not go into the bottle whole. We did this about 4 times and each time our eggs were torn while being sucked into the bottle.

Supplies

1 hard boiled egg

1 glass bottle (we used a Snapple one, it has a wider opening)

2 pieces of paper

1 match

Directions



Get your hard boiled egg, and put a piece of paper in your bottle.



Light another piece of paper and let it burn for a sec then drop it in your bottle.



*As soon as you drop the paper in put
your egg on top of the bottle*



There it goes!

*Watch as your egg starts to get sucked
in to the bottle*



Don't look away you might miss it!



And the egg is now in the bottle.



Science is so COOL!