JR-SCIENTISTS

RUBBER EGG

This rubber egg experiment is a classic science activity!

SUPPLIES

Raw Eggs
Vinegar
Jar/Vase
Food coloring (optional)

INSTRUCTIONS:

STEP 1: Place an egg in the jar and cover with vinegar. You can color the vinegar for rubber eggs too!

STEP 2: Wait and watch! Notice the bubbles on the eggshell! This is the acid in the vinegar reacting with the calcium carbonate in the shell. This reaction is producing a gas called carbon dioxide!

STEP 3: After 48 hours, remove the egg and rinse it off. Ours had a layer of brown scum that was easily washed away! The hard outer shell is gone and the egg white and yolk are surrounded by a thin membrane.

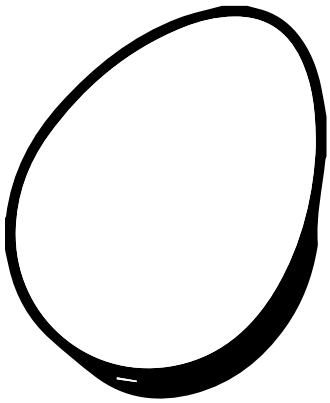
THE SCIENCE

The eggshell gets its hardness from a mineral called calcium carbonate similar to our bones.

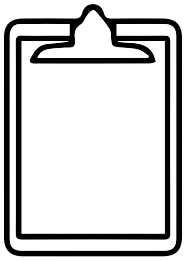
When you place the egg into the vinegar, you will start to observe bubbles. These bubbles are a chemical reaction between the acid in the vinegar and the base in the calcium carbonate of the eggshell. When an acid and a base mix they form carbon dioxide which is a gas.

Rubber Egg Observations

Use this worksheet to process and evaluate your work.



Do you think you can make a raw egg bounce?



RECORD

What did you observe day 1? Day 2? What were the differences?

What did your egg look like when you removed it from the vinegar?

Did it bounce? How was that possible?